MICHIGAN AGRICULTURAL STATISTICS

1986

MICHIGAN DEPARTMENT OF AGRICULTURE

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P.O. Box 30017, Lansing, Michigan 48909

PAUL E. KINDINGER, Director

August, 1986

Dear Reader:

For nearly 150 years agriculture has been a major force in Michigan's overall economy, and is currently the state's second leading industry.

Michigan produces more than 50 food and fiber crops commercially each year and leads the nation in the production of blueberries, bedding plants, cucumbers (pickling), Easter lilies (potted), eastern soft winter white wheat, geraniums (potted), navy beans, plantation Christmas trees, and red tart cherries.

This crop diversity is due to Michigan's unique and varied soils, the "tempering effect" of the Great Lakes, and an abundant supply of fresh water.

Cash receipts from farm production reached $2.97 billion in 1985. The value of Michigan's vast agribusiness complex, when the costs of processing, shipping and marketing services are added, reaches an estimated $15 billion.

In a business of this size, it is important for farmers to have reliable information to make wise production decisions. Basic statistical data is equally important to those who plan and make decisions related to agriculture and the food chain....whether processors, manufacturers, bankers, educators, government officials, or consumers.

For more than 110 years the Michigan Agricultural Statistics Service has collected, analyzed and published the state's agricultural statistics, and serves a vital role in the Michigan Department of Agriculture.

We hope you will find the data contained in Michigan Agricultural Statistics 1986 useful and informative. Please feel free to contact the Michigan Agricultural Statistics Service with your questions or comments.

Sincerely,

P.E. Kindinger

Director

MICHIGAN AGRICULTURAL STATISTICS 1986

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Cooperating

Michigan Department of Agriculture Agricultural Development Division

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This bulletin is provided free to Michigan farmers and reporting agribusiness firms. Others may obtain copies at $3.00 each. Please make checks payable to USDA-NASS and send it with your request to P.O. Box 20008, Lansing, MI 48901.

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Michigan
Agricultural
Statistics
Service

Michigan Dept. of Agriculture
U.S. Department of Agriculture

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August, 1986

Dear Friends:

We are pleased to present the 1986 issue of Michigan Agricultural Statistics.

This office greatly appreciates the excellent support by farmers and agribusinesses who voluntarily provide information about their industry despite the current difficult economic conditions. Without this cooperation we would be unable to provide these data.

In 1985 both the National and Michigan farming communities experienced a continuation of the farm financial problems which started in early 1984. With low prices, profitability remained poor, land values continued to depreciate rapidly and major adjustments in financial management were required by many farmers and agribusinesses. A significant number of farms and businesses were restructured through change in ownership.

Special recognition is due the public and private outreach and assistance programs which have provided advice and help to the farming sector in this time of crisis.

At this point land values appear to be stabilizing. Hopefully, the recovery process will soon be underway. The continued spirit of cooperation within the agricultural community will see the resolution of the present difficulties.

Once again, thanks to all our reporters who cooperate in this work. Your suggestions for improvement of this report will be appreciated.

Sincerely,

Don J. Fedewa

Don J. Fedewa
Statistician in Charge

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Michigan's Rank in the Nation's Agriculture, 1985

COMMODITY	Rank Among States	Production	Unit	Percent of U.S. Production	Leading State
		1,000			
Tart Cherries	1	220,000	Lbs.	76.9	**Michigan**
Cucumbers for Pickles	1	134.4	Tons	19.4	**Michigan**
All Dry Beans	1	5,412	Cwt.	24.3	**Michigan**
Navy Beans	1	4,355	Cwt.	68.6	**Michigan**
Cranberry Beans	1	261	Cwt.	100.0	**Michigan**
Black Turtle Beans	1	165	Cwt.	69.6	**Michigan**
Geraniums, Potted	1	11,035	Pots	14.5	**Michigan**
Easter Lilies, Potted	1	885	Pots	13.5	**Michigan**
Bedding Plants	1	7,060	Flats	14.1	**Michigan**
Sweet Cherries	2	31,000	Lbs.	23.3	Washington
Prunes and Plums	2	11	Tons	21.7	Oregon
Red Kidney Beans	2	398	Cwt.	26.7	California
Gladioli	2	20,160	Spikes	12.7	Florida
Apples	3	1,100,000	Lbs.	14.1	Washington
Asparagus	3	230	Cwt.	10.8	California
Celery	3	1,312	Cwt.	7.1	California
Mushrooms	3	19,501	Lbs.	3.3	Pennsylvania
Tomatoes, Processing	3	166.3	Tons	2.3	California
Small White Beans	3	125	Cwt.	23.4	Washington
African Violets, Potted	3	840	Pots	7.1	California
Carrots	4	1,664	Cwt.	7.3	California
Non-Fat Dry Milk	4	105,938	Lbs.	7.6	California
Snap Beans, Processing	4	48.6	Tons	6.9	Wisconsin
Other Lilies, Potted	4	40	Pots	4.5	California
Grapes	4	51	Tons	.9	California
Sugarbeets	5	2,325	Tons	10.3	Minnesota
Alfalfa Hay	5	5,040	Tons	5.9	Wisconsin
Peaches	5	55,000	Lbs.	4.7	California
Pears	5	8	Tons	1.1	California
Floriculture	5	74,793	Dollars	4.4	Florida
Poinsettias, Potted	5	2,545	Pots	2.6	California
Milk	6	5,568,000	Lbs.	3.9	Wisconsin
Butter	6	45,608	Lbs.	3.7	Wisconsin
Creamed Cottage Cheese	6	36,071	Lbs.	5.0	New York
Spearmint	6	92	Lbs.	4.0	Washington
Strawberries	6	163	Cwt.	1.6	California
Cauliflower	6	98	Cwt.	1.5	California
Oats	7	26,130	Bushels	5.0	S. Dakota
Onions	7	2,535	Cwt.	5.7	California
Corn, Sweet	7	780	Cwt.	5.0	Florida
Ice Milk	7	11,609	Gallons	3.9	California
Mink	7	166.5	Pelts	4.0	Wisconsin
Corn for Grain	8	286,650	Bushels	3.2	Iowa
Corn for Silage	8	4,590	Tons	4.5	Wisconsin
All Hay	9	5,705	Tons	3.8	Wisconsin
Ice Cream	9	35,334	Gallons	3.9	California
Rye	9	651	Bushels	3.2	S. Dakota
Pinto Beans	9	64	Cwt.	.8	Colorado
Lettuce	9	300	Cwt.	.5	California
Potatoes	10	15,136	Cwt.	3.7	Idaho
Milk Sherbet	11	1,524	Gallons	3.2	California
Tomatoes, Fresh Market	11	320	Cwt.	1.1	Florida
Hogs and Pigs[1]	12	1,190	Head	2.3	Iowa
Winter Wheat	12	45,000	Bushels	2.5	Kansas
Eggs	13	1,693,000	Eggs	2.5	California
Turkeys	16	2,300	Birds	1.2	N. Carolina
Soybeans	17	34,560	Bushels	1.6	Illinois
Cash Receipts from Marketings	19	2,966,529	Dollars	2.1	California

[1] December 1 inventory

Farm Numbers and Acreage, Michigan[1]

YEAR	Number of Farms	Average Size per Farm	Total Land in Farms
		Acres	*1,000 Acres*
1985	**63,000**	**181**	**11,400**
1984	63,000	181	11,400
1983	64,000	178	11,400
1982	64,000	178	11,400
1981	65,000	175	11,400
1980	65,000	175	11,400
1970	84,000	151	12,700
1960	118,000	131	15,400
1950	161,000	111	17,900
1940	190,000	97	18,400
1930	179,000	101	18,000
1920	196,447	97	19,033
1910	206,960	92	18,941
1900	203,261	86	17,562

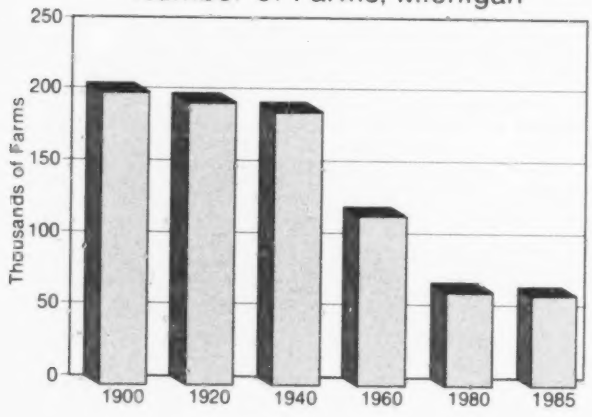
[1] Starting with 1979, USDA estimates of farm numbers and land in farms is based on the definition "a farm is a place as of June 1 that sells or could sell $1,000 of agricultural products during the year." Prior to 1979 farm definition was "places of 10 or more acres that had annual sales of $50 or more or places that had annual sales of $250 or more."

Michigan Crop Acreage, Production and Value

CATEGORIES AND ANNUAL TOTALS	Acreage Harvested	Total Production	Value of Production
	1,000 Acres	*1,000 Tons*	*1,000 Dollars*
1985 CROPS:			
Field Crops[1]	7,688	24,559	1,564,634[2]
Fruit	113	789	168,006
Vegetables	108	722	127,201
TOTAL CROPS:			
1985	**7,909**	**26,070**	**1,859,841[2]**
1984	7,940	23,055	1,789,565
1983[3]	6,383	20,362	1,712,185

[1] Includes minor crops.
[2] Includes 1985 sugarbeet production valued at the 1984 level.
[3] Does not includes asparagus and cucumbers for pickles.

Number of Farms, Michigan



Production Index by Groups, Michigan (1977 = 100)

YEAR	All Crops[1]	Feed Grains[2]	Hay	Cash Crops[3]	Fruit
1985	**149**	**136**	**200**	**134**	**166**
1984	129	105	185	126	128
1983	107	79	157	114	113
1982	133	139	152	108	152
1981	127	126	143	119	104

[1] Includes feed grains, hay, cash crops and fruit.
[2] Corn, oats and barley.
[3] Wheat, dry beans, soybeans, sugarbeets and potatoes.

Production Index by Groups, United States (1977 = 100)

YEAR	All Crops[1]	Feed Grains	Hay and Forage	Food Grains	Sugar Crops
1985	**116**	**133**	**106**	**121**	**97**
1984	110	115	107	129	95
1983	88	67	101	117	96
1982	118	124	110	140	96
1981	116	121	106	144	107

[1] Includes vegetables, fruits, nuts and some other crops not in separate groups shown, and farm vegetable gardens.

Record Highs and Lows In Michigan Agriculture

FIELD CROPS & VEGETABLES	Year Estimates Started	Record	Acreage		Yield			Production	
			Harvested	Year	Unit	Per Acre	Year	Total	Year
			1,000					*1,000*	
Corn for grain	1924	High	2,800	1981	Bu.	107	1982	293,180	1982
		Low	577	1929		24.5	[1]	15,637	1929
Winter Wheat	1909	High	1,515	1953	Bu.	60	1985	45,600	1984
		Low	410	1978		10.5	1912	7,350	1912
Oats	1866	High	1,658	1918	Bu.	67	1985	69,388	1946
		Low	205	1866		18.5	1921	6,490	1867
Barley	1866	High	303	1932	Bu.	68	1985	8,400	1918
		Low	16	1974		13.5	1933	546	1866
Rye	1866	High	913	1919	Bu.	31	1985	12,143	1919
		Low	7	1866		8.8	1934	105	1866
Soybeans	1924	High	1,190	1984	Bu.	33	1980	35,340	1982
		Low	1	1930		8	1927	10	1930
Potatoes	1866	High	374	1895	Cwt.	266	1984	23,256	1904
		Low	36.4	1975		26	[2]	3,557	1876
Dry Beans	1909	High	690	1930	Cwt.	14.7	1963	8,585	1963
		Low	314	1921		3.2	1917	1,656	1916
Sugarbeets	1906	High	154	1933	Ton	21.3	1970	2,325	1985
		Low	48	1943		5.5	1916	298	1943
All Hay	1866	High	2,907	1924	Ton	3.3	1985	5,705	1985
		Low	780	1866		.6	1895	1,014	1866
Alfalfa	1919	High	1,444	1950	Ton	3.6	[3]	5,040	1985
		Low	74	1919		1.1	1934	118	1919
Spearmint	1935	High	8.7	1954	Lb.	47	1935	280	1948
		Low	.7	1935		20	1965	30	1965
Carrots	1929	High	7.5	1984	Cwt.	350	1930	2,025	1984
		Low	.5	1929		150	1959	132	1936
Cauliflower	1939	High	1.9	1958	Cwt.	141	1949	212	1949
		Low	.7	1976		36	1959	38	1973
Celery	1928	High	7.2	1941	Cwt.	470	1982	1,918	1941
		Low	1.9	1960		174	1935	590	1959
Lettuce	1952	High	1.7	1963	Cwt.	250	[4]	384	1967
		Low	1.1	1984		85	1953	110	1953
Onions	1928	High	12.7	1935	Cwt.	350	1960	2,822	1965
		Low	5.0	1928		120	1935	852	1928
Snap Beans (Proc.)	1918	High	18.7	1985	Ton	2.8	[5]	49,000	1984
		Low	.8	1921		.6	1947	600	1921
Sweet Corn	1949	High	15.2	1961	Cwt.	80	1970	1,016	1970
		Low	9.5	1956		42	1949	525	1949
Strawberries	1928	High	11.6	1957	Lb.	8,000	[6]	45,144	1940
		Low	2.5	1985		1,080	1934	11,880	1934
Tomatoes (Proc.)	1918	High	9.7	1982	Ton	25.2	1985	205	1982
		Low	1.0	1921		2.7	1943	5	1921
Tomatoes (Fresh)	1928	High	9.4	1943	Cwt.	120	[7]	797	1943
		Low	2.5	1928		60	1959	206	1930

[1] 1930, 1934
[2] 1887, 1916
[3] 1983, 1985
[4] 1982, 1985
[5] 1980, 1983, 1984
[6] 1976, 1982
[7] 1979, 1983, 1984

Record Highs and Lows In Michigan Agriculture (Continued)

FRUIT	Year Estimates Started	Record	Trees Of Bearing Age	Year	Production		
					Unit	Total	Year
			1,000				
Apples	1889	High	10,928	1899	Mil. Lbs.	1,100	1985
		Low	2,200	[8]		53	1945
Tart Cherries	1925	High	3,650	[9]	Mil. Lbs.	380	1964
		Low	1,339	1929		18	1927
Sweet Cherries	1925	High	980	[10]	Mil. Lbs.	75	1978
		Low	79	1929		1	1945
Peaches	1889	High	12,500	1898	Mil. Lbs.	245	[11]
		Low	400	1982		7	1918
Pears	1889	High	1,319	1898	Ton	48,600	1964
		Low	140	1985		2,425	1890
Prunes & Plums	1919	High	750	1972	Ton	25,000	1971
		Low	209	1941		1,700	1945
Grapes[12]	1889	High	18,500	1929	Ton	77,900	1932
		Low	5,600	1985		4,200	1889

LIVESTOCK & PRODUCTS	Year Estimates Started	Record	Inventory January 1 Or Production		
			Unit	Total	Year
Cattle & Calves	1867	High	1,000	2,036	1944
		Low	Head	538	1867
Milk Cows	1867	High	1,000	1,080	1945
		Low	Head	225	1867
Cattle on Feed	1930	High	1,000	245	1973
		Low	Head	57	1931
Hogs & Pigs	1867	High	1,000	1,397	1944
		Low	Head	512	1935
Sheep	1867	High	1,000	3,100	1867
		Low	Head	108	1986
Chickens (all)	1924	High	1,000	15,512	1944
		Low	Head	7,530	1963
Turkeys (Number Raised)	1929	High	1,000	2,300	1985
		Low	Head	253	[13]
Milk	1924	High	Mil. Lbs.	5,758	1964
		Low		3,941	1927
Eggs	1924	High	Mil. Eggs	1,697	1944
		Low		1,104	1929
Wool	1934	High	1,000 Lbs.	8,424	1934
		Low		775	1985

[8] 1960, 1961
[9] 1963, 1964, 1965, 1966, 1967
[10] 1973, 1974, 1975
[11] 1945, 1946
[12] Vines of bearing age
[13] 1929, 1930

Farm Labor

Farm labor estimates published by the Agricultural Statistics Board are no longer available for individual states. Farm labor estimates are published by region, in an effort to improve the quality, reliability and comparability of the farm labor estimates with farm economic estimates. Michigan estimates will be combined with those of Minnesota and Wisconsin to comprise the Lake Region farm labor estimates.

Quarterly figures are provided beginning with the July 1984 estimates for the Lake Region. These to include the major farm labor elements of "Workers on Farms," "Wage Rates," and "Hours Worked."

Hours Worked and Wage Rates[1]

YEAR & MONTH	Hours Worked Per Week			Wage Rates for All Hired Workers
	Self-employed	Unpaid	Hired	
	Hours			*Dollars Per Hour*
1986				
April	**49.8**	**33.6**	**34.3**	**3.94**
1985				
April	52.0	35.3	36.6	3.92
July	56.3	38.0	35.3	3.78
October	54.6	34.5	35.9	4.22
1984				
July	58.6	41.6	35.2	3.66
October	50.0	35.3	38.1	4.03

[1] Lake Region (Michigan, Minnesota, Wisconsin).

Workers on Farms[1]

YEAR & MONTH	All Farm Workers	Self-employed	Unpaid	Hired		
				Number of Workers	Expected to be Employed	
					150 Days or More	149 Days or Less
	1,000	*1,000*		*1,000*		
1986						
April	**333**	**179**	**76**	**78**	**60**	**18**
1985						
April	348	187	86	75	55	20
July	518	209	163	146	65	81
October	415	198	118	99	53	46
1984						
July	500	204	164	132	60	72
October	424	219	107	98	54	44

[1] Lake Region (Michigan, Minnesota, Wisconsin).

Wage Rates for Hired Workers[1]

YEAR & MONTH	Type of Work					Method of Pay		
	Field	Livestock	Field & Livestock	Supervisory	Other	Hourly	Piece Rate	Other
	Dollars Per Hour					*Dollars Per Hour*		
1986								
April	**4.24**	**3.37**	**3.62**	[2]	**4.96**	**4.03**	[2]	**3.65**
1985								
April	4.66	3.33	3.63	6.88	4.71	3.93	5.87	3.78
July	3.67	3.48	3.60	6.64	4.31	3.87	3.58	3.63
October	3.99	3.84	3.92	6.03	4.77	4.24	4.64	4.08
1984								
July	3.72	3.10	3.53	5.73	3.68	3.72	3.69	3.41
October	4.45	3.29	3.82	6.14	4.54	4.04	4.63	3.78

[1] Lake Region (Michigan, Minnesota, Wisconsin).
[2] Insufficient data.

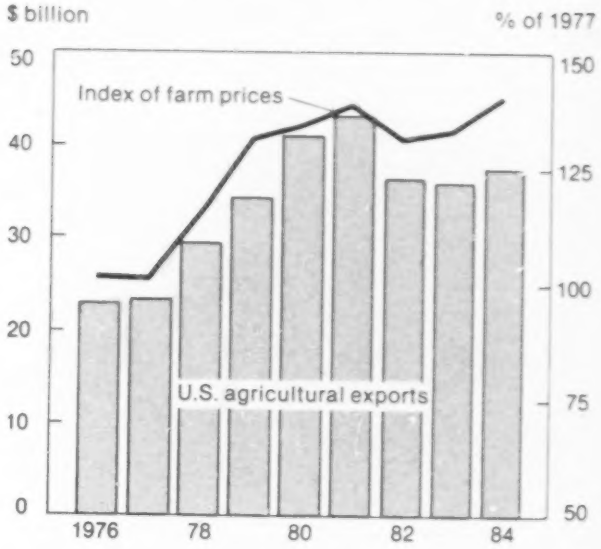
Exports

Total Agricultural Exports

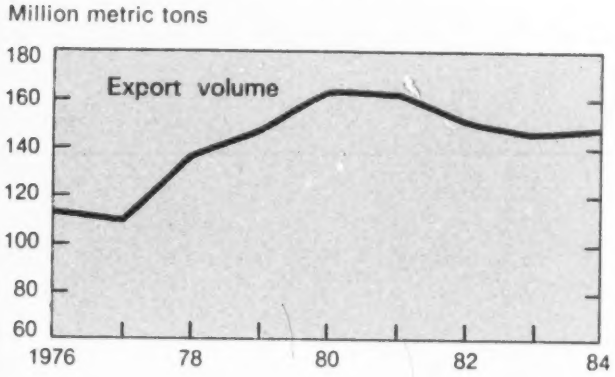
Fiscal Year	Michigan	United States	Michigan's National Ranking
	Million Dollars		
1985	**516.3**	**31,187**	**21**
1984	742.8	38,027	17
1983	609.0	34,770	20
1982	707.2	39,095	16
1981	896.6	43,780	14

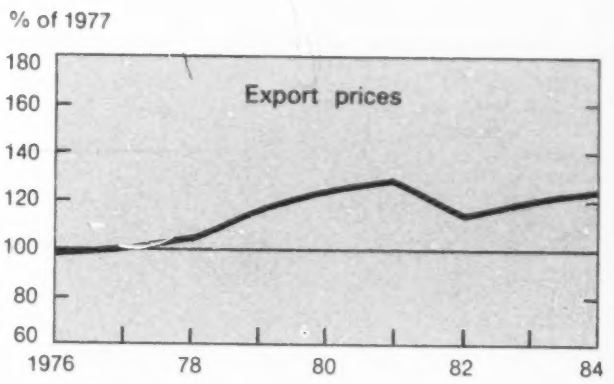
Source: USDA, ERS (*Foreign Agricultural Trade of the United States*, March/April 1986)

U.S. Agricultural Exports and Farm Prices



U.S. Agricultural Trade Indicators





Michigan Exports by Commodity[1]

Commodity	1985	1984	1983	1982	1981
			Million Dollars		
Wheat & Products	**41.9**	48.3	31.7	69.6	63.3
Feed Grains & Products	**207.6**	347.0	254.1	242.4	389.2
Soybeans & Products	**91.0**	156.0	125.5	122.6	136.5
Fruits and Preparations	**25.4**	25.1	34.4	33.8	36.7
Vegetables & Dry Edible Beans	**50.7**	56.5	60.1	134.3	168.0
Meat Animals & Products	**51.1**	53.7	51.8	54.0	50.5
Poultry & Products	**2.8**	2.6	3.3	4.6	5.8
Dairy Products	**10.0**	10.7	9.5	9.0	5.9
Seeds	**8.8**	8.1	8.3	7.5	7.3
Feeds	**16.0**	20.3	17.9	17.2	16.1
Other	**11.0**	14.3	12.4	12.3	17.4
TOTAL	**516.3**	742.8	609.0	707.2	896.6

Source: USDA, ERS (Foreign Agricultural Trade of the United States, March/April 1986).

[1] Agricultural export estimates by State for major commodity groups are based on the assumption that state contributions to exports are equal to each state's share of production or marketings. For example, if Michigan produced 2 percent of the U.S. wheat crop in 1985, it was assumed that 2 percent of U.S. wheat exports originated in Michigan. Farm marketing ratios from the census of agriculture or other sources were used to calculate state shares when production data by state distorted export patterns or when production statistics by state were not available.

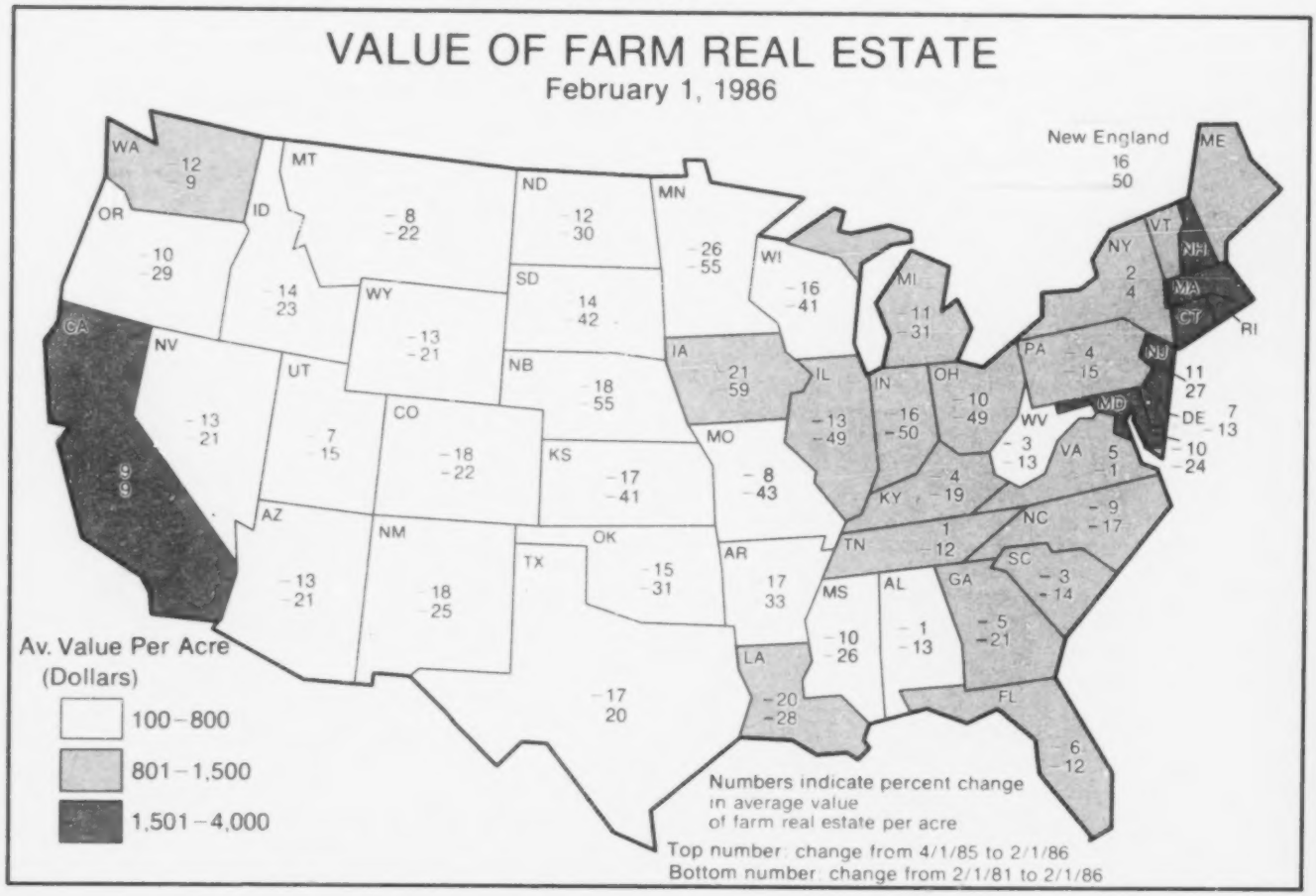
Value of Farm Real Estate and Farm Population

REGION/STATE	February 1	April 1			Farm Population 1980[1]	% of Total Population 1980
	1986	1985	1984	1983		
	Dollars per Acre[2]					
Northeast						
Maine	993	856	750	708	13,963	1.2
New Hampshire	1,646	1,419	1,244	1,174	6,640	.7
Vermont	1,180	1,017	893	842	18,079	3.5
Massachusetts	2,752	2,372	2,081	1,963	9,839	.2
Rhode Island	3,869	3,335	2,926	2,760	1,115	.1
Connecticut	3,721	3,208	2,814	2,655	7,383	.2
New York	824	808	842	817	123,109	.7
New Jersey	3,913	3,525	3,234	3,140	18,984	.3
Pennsylvania	1,450	1,510	1,642	1,520	158,183	1.3
Delaware	1,757	1,642	1,866	1,829	10,246	1.7
Maryland	1,887	2,097	2,185	2,121	44,934	1.1
Lake States						
Michigan	936	1,052	1,223	1,223	177,591	1.9
Wisconsin	711	847	1,046	1,113	282,722	6.0
Minnesota	609	823	1,083	1,165	315,400	7.7
Corn Belt						
Ohio	1,013	1,126	1,444	1,504	271,542	2.5
Indiana	1,058	1,259	1,594	1,610	276,154	5.0
Illinois	1,143	1,314	1,800	1,837	313,978	2.7
Iowa	841	1,064	1,499	1,684	391,070	13.4
Missouri	606	659	856	856	282,074	5.7
Northern Plains						
North Dakota	317	360	439	439	103,881	15.9
South Dakota	215	250	338	348	112,854	16.3
Nebraska	364	444	617	701	178,113	11.3
Kansas	387	466	583	601	172,901	7.3
Appalachian						
Virginia	1,146	1,091	1,114	1,125	113,115	2.1
W. Virginia	537	554	667	688	28,730	1.5
North Carolina	1,130	1,242	1,380	1,314	188,437	3.2
Kentucky	870	906	1,007	1,049	244,589	6.7
Tennessee	992	982	1,044	1,014	175,673	3.8
Southeast						
South Carolina	872	899	927	946	53,595	1.7
Georgia	822	865	910	929	121,089	2.2
Florida	1,435	1,527	1,608	1,576	58,679	.6
Alabama	761	769	809	826	87,757	2.3
Delta States						
Mississippi	752	835	939	894	84,758	3.4
Arkansas	705	849	933	972	107,648	4.7
Louisiana	1,005	1,256	1,351	1,351	58,945	1.4
Southern Plains						
Oklahoma	481	566	699	699	129,874	4.3
Texas	541	652	593	544	268,893	1.9
Mountain States						
Montana	204	222	264	259	58,396	7.4
Idaho	644	749	814	814	69,129	7.3
Wyoming	154	177	197	193	19,407	4.1
Colorado	357	435	468	454	59,152	2.0
New Mexico	134	163	182	178	20,087	1.5
Arizona	231	265	295	289	13,770	.5
Utah	478	514	571	560	18,372	1.3
Nevada	199	229	254	249	5,539	.7

Value of Farm Real Estate and Farm Population (Continued)

REGION/STATE	February 1	April 1			Farm Population 1980[1]	% of Total Population 1980
	1986	1985	1984	1983		
	Dollars per Acre[2]					
Pacific States						
Alaska	—	—	—	—	822	.2
California	1,571	1,726	1,918	1,918	176,460	.7
Hawaii	—	—	—	—	4,523	.5
Oregon	521	579	698	705	78,045	3.0
Washington	812	923	961	933	81,664	2.0
United States	596	679	782	788	5,617,903	2.5

[1] Source: Bureau of the Census, U.S. Department of Commerce News.
[2] Average value per acre of land and buildings, by state, grouped by farm production region.



Michigan Real Estate Farm Debt Outstanding[1]

LENDOR	1984	1983	1982	1981	1980
	Million Dollars				
Total Debt Outstanding	2,509	2,509	2,416	2,315	2,064
Federal Land Banks	1,249	1,235	1,169	1,087	898
Farmers Home Administration	250	235	224	214	177
Life Insurance Companies	80	82	71	80	80
All operating banks	226	198	200	187	201
Individuals and others	703	760	752	747	709

[1] Includes operator households. Reference date is December 31. Components may not add to totals due to rounding.

INCOME, PRICES AND ENERGY

Cash receipts from 1985 marketings of crops, livestock and livestock products in Michigan reached nearly $3 billion, 7 percent above the previous year. The higher receipts were due to increased farm product sales which more than offset lower 1985 prices for most farm commodities. Crop cash receipts, $1.7 billion, were up 17 percent, while livestock receipts dropped 5 percent. Michigan placed 19th in the U.S. in total cash receipts during 1985 and accounted for 2 percent of the U.S. total. Cash receipts statistics provide only a partial measure of gross farm income and do not reflect the net income earned by farmers. To arrive at net farm income, one must also consider farm production expenses, government payments, net changes in inventories of commodities held by farmers, the farm debt situation, and income from other farm-related sources.

Farm expense data for Michigan is not yet available for 1985. Preliminary U.S. data shows that prices farmers paid for production inputs, interest, taxes and wage rates declined 2 percent in 1985. However, farm expenses remained high when compared with past years. The gains producers received from lower expenses were more than offset by the lower prices received for commodities. Production inputs showing the largest decreases from 1984 to 1985 were feed, fertilizer, tractors and self-propelled machinery. Inputs showing small cost increases included seed, other farm machinery, farm services, taxes and farm wage rates. Input costs for feeder livestock, chemicals, fuels and energy, farm and motor supplies and interest were basically unchanged. Preliminary estimates placed 1985 U.S. net farm income in the range of $29 to $32 billion, down about 12 percent from the previous year.

Farm Income

Statistics on 1985 Michigan net farm income will be published in the fall of 1986. The net change in farm inventories is added to realized net farm income to arrive at total net farm income. The net change in farm inventories measures the year-to-year changes in the quantities of grain and livestock owned by farmers at the end of each year. This component has shown extremely large fluctuations in recent years making net farm income after inventory adjustment harder to evaluate. In 1983, the net change in inventories was a large negative number due to the PIK program and a drought. In 1984, net change in inventories was a large positive number due to large harvests and low prices. Michigan's realized net farm income (before adjusting for changes in farm inventories) in 1984 fell to $399 million. This was the second lowest realized net farm income since 1972. The highest, $618 million, occurred in 1973. Gross farm income consists of the following components: cash receipts from farm marketings, government payments, nonmoney income and other farm income. Other farm income includes cash income from sources such as recreation, machine hire, custom work, and forest product sales from farms.

Michigan Farm Balance Sheet

ITEM	1984[1]	1983	1982	1981	1980
			Million Dollars		
Total Farm Assets	15,630.2	17,500.9	17,689.6	17,921.1	17,777.6
Real estate[2]	10,451.5	12,133.8	12,117.2	12,644.8	12,736.1
Livestock and poultry[3]	855.7	835.5	907.6	912.1	971.7
Machinery and motor vehicles	2,825.2	3,001.7	3,073.2	2,936.7	2,683.0
Crops[4]	652.4	734.6	826.9	719.8	728.5
Financial assets	845.4	795.3	764.8	707.8	658.3
Total Farm Debt	3,992.4	3,999.5	4,015.4	3,636.3	3,200.4
Real estate debt	2,186.1	2,183.8	2,099.8	2,008.9	1,789.2
Nonreal estate debt	1,691.3	1,659.7	1,625.6	1,482.4	1,309.2
CCC loans	115.0	156.0	290.0	145.0	102.0
Equity	11,637.8	13,501.4	13,674.2	14,284.8	14,577.3
Debt/Assets Ratio	25.5	22.9	22.7	20.3	18.0

[1] Preliminary.
[2] Excludes value of operator dwellings.
[3] Excludes equine and broilers.
[4] All crops held on farms including crops under CCC and crops held off farms by farm operators.

Gross and Net Income, Michigan[1]

ITEM	1984	1983	1982	1981	1980
			Million Dollars		
Realized Gross Farm Income					
Cash receipts from farm marketings	**2,777.0**	2,901.0	2,750.5	2,756.7	2,720.2
Government payments	**167.7**	144.4	40.4	17.3	10.7
Nonmoney income	**398.8**	405.4	440.4	416.9	353.5
Other farm income	**158.3**	128.9	124.8	117.0	101.7
Total gross farm income	**3,501.7**	3,579.7	3,356.1	3,307.8	3,186.1
Farm production expenses	**3,102.8**	3,042.7	2,958.3	2,865.7	2,605.9
Realized net farm income[2]	**398.9**	537.0	397.8	442.1	580.2
Net change in farm inventories	**201.9**	−256.4	105.5	150.3	−34.7
Total net farm income	**600.8**	280.6	503.3	592.4	545.5

[1] Items may not add to totals due to rounding.
[2] Does not take into account the net change in farm inventories.

Income per Farm

YEAR	Michigan		United States	
	Realized Gross Income[1]	Realized Net Income[1]	Realized Gross Income[1]	Realized Net Income[1]
	Dollars		*Dollars*	
1984	**55,583**	**6,332**	**71,379**	**11,469**
1983	55,933	8,391	68,006	10,785
1982	52,439	6,216	67,897	10,861
1981	50,889	6,802	65,826	9,898
1980	49,017	8,926	63,925	10,733

[1] Excludes changes in inventories and represents income of farm operators.

Gross Farm Income By Source, Michigan[1]

YEAR	Cash Income from Farm Marketing			Other Income		
	Crops	Livestock and Livestock Products	Total	Government Payments	Other Sources[2]	Total Gross Farm Income
			Million Dollars			
1985	**1,729.6**	**1,237.0**	**2,966.5**	[3]	[3]	[3]
1984	1,479.4	1,297.6	2,777.0	167.7	557.1	3,501.7
1983	1,634.2	1,266.8	2,901.0	144.4	534.3	3,579.7
1982	1,574.2	1,176.3	2,750.5	40.4	565.2	3,356.1
1981	1,644.1	1,112.6	2,756.7	17.3	533.9	3,307.8

[1] Items may not add to totals due to rounding.
[2] Includes cash income from sources such as machine hire, custom work, recreation, and forest product sales. Also includes nonmoney income from rental value of farm dwellings and value of farm products consumed directly on farms.
[3] Not available at time of publication.

Cash Receipts from Marketings, Michigan

PRODUCT	1984	1983	1982	1981	1980
			1,000 Dollars		
LIVESTOCK & PRODUCTS					
Dairy	**709,538**	739,946	703,906	693,961	647,491
Cattle & Calves	**248,224**	252,844	234,484	183,207	243,689
Hogs	**203,601**	163,245	132,554	129,020	135,678
Eggs	**75,350**	63,743	64,473	68,670	57,760
Sheep & Lambs	**4,586**	3,389	4,017	3,455	5,438
All Chickens	**3,338**	3,607	3,041	3,366	3,640
Turkeys	**27,825**	19,950	19,188	17,056	16,588
Other Livestock	**25,164**	20,111	14,654	13,816	13,322
TOTAL LIVESTOCK & PRODUCTS	**1,297,626**	1,266,835	1,176,317	1,112,551	1,123,606
CROPS					
Field Crops & Vegetables:					
Corn	**377,363**	500,262	490,884	456,916	508,032
Dry Edible Beans	**94,964**	121,710	114,148	221,321	149,250
Soybeans	**209,116**	224,045	209,013	176,847	234,851
Sugarbeets	**72,781**	70,741	66,337	53,795	77,004
Wheat	**99,402**	124,354	73,173	136,010	121,899
Potatoes	**62,090**	66,003	51,038	53,868	56,580
Hay	**44,743**	38,867	37,595	31,690	24,104
Oats	**14,891**	22,794	20,571	27,765	22,011
Mushrooms	**16,367**	15,977	13,446	16,319	13,049
Mint	**1,536**	1,536	1,788	1,829	1,498
Red Clover Seed	[1]	[1]	[1]	561	580
Rye	**743**	753	923	809	911
Barley	**2,646**	2,136	2,491	1,848	1,332
Vegetables	**146,385**	172,762	158,186	158,399	126,563
Other Crops	**13,595**	12,943	12,911	11,564	11,828
Fruit:					
Apples	**61,816**	62,022	57,744	75,031	48,214
Blueberries	[2]	[2]	[2]	26,572	16,400
Cherries	**62,559**	50,862	36,805	49,334	40,593
Grapes	**8,095**	11,593	11,710	13,296	11,825
Peaches	**7,610**	7,418	9,504	6,624	7,584
Strawberries	**7,076**	8,412	11,476	8,296	7,001
Pears	**2,326**	1,804	2,334	1,924	2,141
Prunes & Plums	**3,245**	2,514	2,694	2,206	2,550
Other Fruit	**22,602**[3]	30,694[3]	24,442[3]	1,108	1,030
Other Products[4]:					
Greenhouse, Nursery, Ornamentals	**147,421**	84,000	165,000	110,200	109,767
TOTAL CROPS	**1,479,372**	1,634,202	1,574,213	1,644,132	1,596,597
TOTAL	**2,776,998**	2,901,037	2,750,530	2,756,683	2,720,203
GOVERNMENT PAYMENTS	**167,669**	144,389	40,417	17,263	10,666
TOTAL	**2,944,667**	3,045,426	2,790,947	2,773,946	2,730,869

[1] Included in other crops.
[2] Included in other fruit.
[3] Includes Blueberries.
[4] Forestry products receipts no longer counted as cash receipts, but are included in the other farm-related income component of gross farm income. Maple products now included in other crops.

Government Payments, Michigan

PROGRAM	1984	1983	1982	1981	1980
			1,000 Dollars		
Conservation Programs	**3,947**	3,684	4,181	4,476	4,077
Wheat Programs	**11,401**	7,762	3,970	4,117	242
Feed Grain Programs	**13,533**	37,134	13,562	2,457	3,428
Misc. Programs[1]	**138,788**[2]	95,809[2]	18,704	6,213	2,919
TOTAL	**167,669**	144,389	40,417	17,263	10,666

[1] Includes Wool Act, Milk Indemnity, Forest Incentive, Water and Lakes, Emergency Livestock Feed, Extended Storage and Livestock Indemnity Programs.
[2] Includes Payment-in-Kind (PIK) Program and (PIK) Storage Program Payments. Milk Diversion program included in 1984.

Farm Finance Survey

Michigan was one of nine Midwest states that participated in a Farm Finance Survey completed during January 1986. The Midwest Association of State Departments of Agriculture coordinated the survey in order to maintain comparability of results. The average debt-to-asset ratio for all farms in the nine-state area was 29.4 percent. The range of the average debt-to-asset ratio varied from a high of 36.9 percent in Iowa to a low of 21.2 percent in Ohio. The debt-to-asset ratio is generally considered a primary measure of whether a farm will have cash flow difficulties and it is computed by dividing the total of all debts by the total value of all assets. A summary of the data is listed below.

Comparison of Debt to Asset Ratios for All Farms Among States

States	Average Debt/ Asset Ratio	Percent of Farmers with Debt/Asset Ratio:			Percent Quitting 1986
		Less Than 40	Between 40 and 69	More Than 69	
Illinois	.308	70.6	18.2	11.2	5.0
Iowa	.369	61.7	22.1	16.2	4.9
Kansas	.318	69.2	18.3	12.5	5.6
Michigan	.286	76.9	17.6	5.5	4.3
Missouri	.247	78.8	14.1	7.1	6.0
Nebraska	.343	63.2	23.0	13.8	6.4
North Dakota	.347	62.2	23.1	14.7	3.0
Ohio	.212	82.8	12.6	4.6	5.0
Wisconsin	.262	74.7	18.7	6.6	4.4
Nine States	.294	71.9	18.1	10.0	5.1

Farm Assets and Debt

Item	State									Nine States
	Illinois	Iowa	Kansas	Michigan	Missouri	Nebraska	North Dakota	Ohio	Wis-consin	
	Thousand Dollars									
Average Total Assets										
All farms	380	367	282	347	228	426	447	287	357	334
Farms with debt	420	392	314	413	253	457	470	326	404	369
Average Total Debt										
All farms	117	135	90	99	56	146	155	61	94	100
Farms with debt	159	179	131	151	94	181	188	104	133	142
	Percent									
Debt to Asset Ratio										
All farms	30.8	36.9	31.8	28.6	24.7	34.3	34.7	21.2	26.2	29.4
Farms with debt	37.8	45.6	41.7	36.5	37.0	39.6	40.0	31.8	32.9	38.1
Real Estate										
Assets % of total assets	58.2	56.8	60.4	63.1	64.6	56.6	57.0	62.3	59.3	60.2
Debt % of total debt	61.0	61.1	55.6	66.2	68.6	54.9	58.0	69.4	66.1	63.1
Machinery and Livestock										
Assets % of total assets	21.2	22.3	24.9	22.0	21.6	26.3	23.6	21.3	28.3	23.2
Debt % of total debt	14.9	17.6	29.9	21.8	21.0	24.9	20.2	15.2	27.7	21.1
Stored Crops, Feed, Seed and Supplies										
Assets % of total assets	11.9	12.8	4.5	6.3	4.0	11.1	12.7	6.7	6.2	8.2
Debt % of total debt	17.2	16.4	7.1	8.5	6.3	17.9	18.9	9.4	3.6	11.1
Other Assets and Debts										
Assets % of total assets	8.7	8.1	10.2	8.6	9.8	6.0	6.7	9.7	6.2	8.4
Debt % of total debt	6.9	4.9	7.4	3.5	4.1	2.3	2.9	6.0	2.6	4.7

Prices Received by Farmers

Prices Received for Field Crops

YEAR[1] OR MONTH	Corn per Bu.	Wheat per Bu.	Oats per Bu.	Soy-Beans per Bu.	Dry Beans per Cwt.	Navy Beans per Cwt.	Potatoes per Cwt.	All Hay per Ton	Alfalfa Hay per Ton
					Dollars				
1985 January	**2.55**	**3.31**	**1.93**	**5.79**	**19.20**	**19.00**	**5.00**	**54.00**	**55.00**
February	**2.58**	**3.42**	**1.86**	**5.67**	**19.30**	**19.00**	**5.60**	**63.00**	**60.00**
March	**2.56**	**3.33**	**1.85**	**5.74**	**19.60**	**19.30**	**6.00**	**57.00**	**56.00**
April	**2.61**	**3.29**	**1.85**	**5.55**	**19.80**	**19.50**	**6.90**	**63.00**	**65.00**
May	**2.56**	**3.07**	**1.68**	**5.49**	**18.80**	**18.80**	**6.50**	**52.00**	**58.00**
June	**2.59**	**3.03**	**1.71**	**5.51**	**17.80**	**17.80**	**6.55**	**39.00**	**50.00**
July	**2.54**	**2.83**	**1.41**	**5.42**	**16.60**	**16.50**	**9.00**	**50.00**	**41.00**
August	**2.46**	**2.69**	**1.20**	**5.04**	**15.10**	**14.50**	**5.00**	**46.00**	**50.00**
September	**2.26**	**2.70**	**1.04**	**4.85**	**15.40**	**15.10**	**4.05**	**45.00**	**48.00**
October	**2.01**	**2.84**	**1.03**	**4.75**	**14.70**	**13.80**	**4.70**	**62.00**	**55.00**
November	**2.14**	**3.10**	**.98**	**4.78**	**15.50**	**14.30**	**4.35**	**61.00**	**65.00**
December	**2.22**	**3.17**	**1.06**	**4.94**	**15.30**	**14.70**	**3.85**	**61.00**	**65.00**
1985[2]	**2.42**	**3.07**	**1.47**	**5.29**	**17.26**	**14.20**	**5.63**	**54.42**	**54.00**
1984	2.60	3.20	1.85	5.90	20.00	18.60	5.60	52.00	55.00
1983	3.20	3.40	1.83	7.82	23.20	21.50	6.60	57.50	62.00
1982	2.55	3.33	1.49	5.46	13.70	13.70	4.65	54.50	58.00
1981	2.39	3.47	1.97	6.02	25.60	25.90	6.30	56.50	63.00

[1] Marketing year.
[2] Preliminary.

Index of Prices Received for Crop Commodity Groups (1977 = 100)

YEAR OR MONTH	Crops				
	All Crops	Cash Field	Fruit	Vegetables	Feed Crops
1985 January	**112**	**123**	**85**	**76**	**118**
February	**113**	**125**	**85**	**75**	**119**
March	**114**	**127**	**86**	**73**	**120**
April	**114**	**129**	**86**	**70**	**121**
May	**111**	**124**	**86**	**70**	**116**
June	**106**	**122**	**86**	**70**	**109**
July	**110**	**125**	**86**	**70**	**113**
August	**102**	**107**	**87**	**83**	**107**
September	**97**	**104**	**83**	**82**	**100**
October	**98**	**105**	**78**	**74**	**104**
November	**101**	**107**	**80**	**70**	**108**
December	**101**	**106**	**81**	**70**	**110**
1985	**107**	**117**	**84**	**74**	**112**
1984	133	139	107	123	138
1983	119	127	86	83	129
1982	118	127	109	121	115
1981	132	160	107	137	121
1947-1949	55	65	41	34	73
1935-1939	21	25	17	13	31
1910-1914	22	25	17	—	39

Prices Received for Livestock and Livestock Products

YEAR OR MONTH	All Hogs per Cwt.[1]	Beef Cattle per Cwt.[2]	Cows per Cwt.[3]	Steers & Heifers per Cwt.	Milk Cows per Head[4]	Calves per Cwt.	Eggs per Doz.	All Milk Wholesale per Cwt.
			Dollars				*Cents*	*Dollars*
1985 January	49.00	50.40	39.30	57.70	890	51.60	35	13.90
February	48.30	51.50	40.90	57.80	—	56.20	33	13.70
March	47.80	48.00	40.00	54.00	—	54.60	41	13.30
April	42.80	48.80	39.70	53.80	880	55.10	35	13.00
May	40.90	48.70	39.50	52.70	—	58.40	33	12.60
June	41.40	47.20	37.90	50.80	—	61.10	39	12.20
July	44.60	43.80	35.20	47.80	880	52.90	36	12.10
August	44.40	42.90	36.10	47.00	—	54.60	44	12.00
September	41.50	42.70	34.40	47.60	—	50.70	49	12.20
October	39.10	45.20	32.80	52.00	810	51.20	49	12.50
November	43.00	46.10	32.00	54.60	—	50.00	52	12.70
December	42.90	44.50	33.20	54.00	—	47.70	51	12.80
1985	**43.90**	**46.30**	**36.10**	**52.10**	**865**	**53.30**	**42**	**12.70**
1984	46.80	48.20	38.50	56.50	915	54.10	60	13.50
1983	47.00	47.20	39.10	54.30	1,070	57.00	52	13.60
1982	52.50	48.00	39.30	55.80	1,150	57.20	51	13.60
1981	43.70	49.50	41.30	56.20	1,280	65.20	54	13.80

[1] Prices pertain to the marketing year, previous December through November.
[2] Combined price for "cows" and "Steers and Heifers".
[3] Beef cows sold for slaughter and herd replacement, and cull dairy cows sold for slaughter.
[4] Sold for dairy herd replacement only. Price series changed to quarterly, January 1982.

Index of Prices Received for Livestock Commodity Groups (1977 = 100)

YEAR OR MONTH	Livestock				ALL LIVESTOCK AND CROPS
	All Livestock	Dairy Products	Meat Animals	Poultry and Eggs	
1985 January	137	144	140	71	123
February	136	142	142	67	123
March	131	138	131	83	121
April	128	135	130	71	121
May	126	131	131	67	117
June	124	126	131	79	114
July	121	125	124	73	115
August	120	124	120	89	110
September	121	126	117	99	108
October	126	130	126	99	111
November	128	132	127	105	113
December	128	133	126	103	113
1985	**127**	**132**	**129**	**84**	**116**
1984	136	140	136	112	134
1983	135	141	132	108	126
1982	138	141	142	99	127
1981	138	143	135	109	135
1947-1949	55	45	57	113	55
1935-1939	23	19	21	55	23
1910-1914	19	16	17	49	20

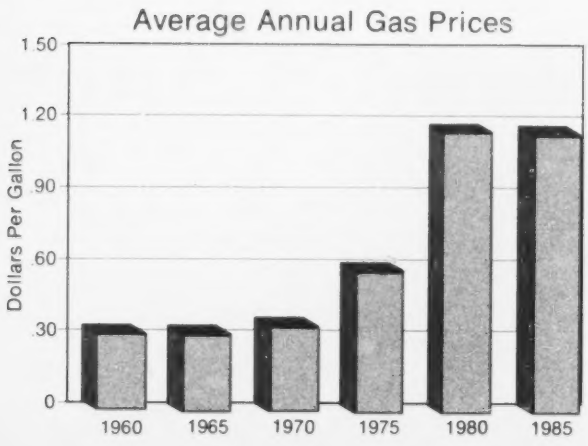
Prices Paid by Michigan Farmers: Annual Averages

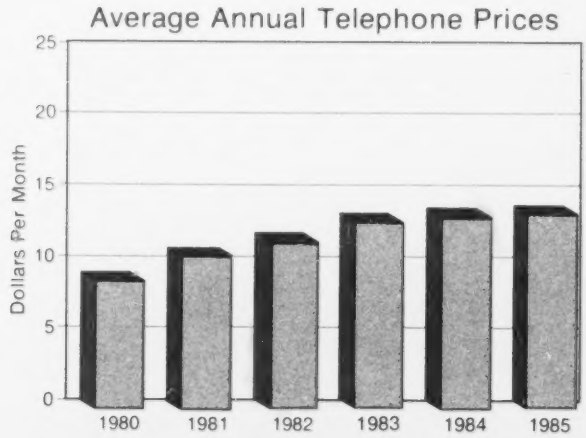
COMMODITY	Unit	1985	1984	1983	1982	1981
				Dollars		
BUILDING MATERIALS:						
Framing lumber, 2" × 4" fir	M bd. ft.	**343.00**	363.00	383.00	370.00	396.00
Shingles, asphalt, 3 in 1	Sq.	**26.00**	27.00	27.00	27.50	29.00
Roofing, gal. steel, 28-29 Ga.	100 sq. ft.	**43.00**	44.00	48.00	47.50	47.00
Nails, 8d, common	Lb.	**.695**	.700	.715	.805	.775
Plywood, ½" C-D-X, 4'×8'	Sheet	**9.25**	9.15	9.45	8.85	10.05
Insulating sheathing, ½", 4'×8'	Sheet	**4.50**	4.30	4.30	4.10	4.20
Portland cement, 94 lb.	Bag	**5.75**	5.65	5.90	5.55	5.52
Paint, exterior	Gallon	**16.35**	16.65	18.50	18.85	17.75
FENCING:						
Barbed wire, 4 pt., 80 rds.	Spool	**40.90**	41.00	42.75	39.75	37.50
Woven wire, 32" high, 20 rds.	Roll	**70.25**	75.50	81.75	71.75	72.25
Post, wood	Each	**3.60**	3.85	3.60	3.45	3.72
Post, steel	Each	**3.00**	3.10	3.30	3.00	3.20
FEEDS:						
Chick starter	Ton	**232.00**	255.00	245.00	225.00	250.00
Laying feed	Ton	**182.00**	205.00	210.00	193.00	198.00
Dairy feed, 16% protein	Ton	**188.00**	200.00	194.00	178.00	207.00
Hog feed, 14-18% protein	Cwt.	**9.30**	10.60	10.25	9.50	10.90
Hog conc., 38-42% protein	Cwt.	**13.60**	15.70	15.80	14.70	15.90
Beef cattle conc., 32-36% protein	Cwt.	**12.00**	13.90	14.70	13.80	14.00
Soybean meal, 44% protein	Cwt.	**9.70**	12.80	14.20	13.30	15.40
Stock salt	Cwt.	**8.10**	8.10	8.00	7.60	7.10
MOTOR SUPPLIES:						
Gasoline, regular, bulk	Gallon	**1.167**	1.179	1.189	1.228	1.275
Diesel fuel	Gallon	**1.044**	1.072	1.056	1.157	1.199
Motor oil, HD, detergent	Gallon	**3.90**	4.05	4.20	4.35	4.10
Grease, 35 lb.	Pail	**30.85**	29.90	29.75	28.90	28.15
Truck tire, 7.00-15, 6 ply	Each	**70.50**[1]	59.00	63.75	65.75	60.75
Truck tire, 9.00-20, 10 ply	Each	**200.00**[2]	163.00	189.00	190.00	178.00
Tractor tire, 15.5-38, 6 ply	Each	**253.00**	254.00	294.00	300.00	280.00
Tractor tire, 18.4-34, 6 ply	Each	**355.00**[3]	321.00	373.00	371.00	365.00
Spark plugs	Each	**1.50**	1.55	1.70	1.70	1.70
FARM MACHINERY:						
Tractors: 30-39 hp.	Each	**12,300**	12,200	11,800	12,200	10,800
50-59 hp.	Each	**18,000**	17,300	17,200	16,200	14,700
110-129 hp.	Each	**41,000**	43,300	40,200	36,000	34,700
170-240 hp. 4-wd.	Each	**73,500**	79,500	79,000	71,300	65,700
Farm wagon[4]	Each	**2,000**	1,750	1,800	1,800	1,750
Manure spreader, 141-190 bu.[5]	Each	**5,400**	5,300	5,000	4,400	4,250
Corn planter, 4-row[6]	Each	**9,000**	8,900	8,400	7,000	6,100
Mower, 7 ft.	Each	**2,600**	2,300	2,200	2,300	1,850
Pick-up baler, pto	Each	**8,200**	8,000	8,000	6,800	5,900
Plows, 1-way: 3 bottom	Each	**2,600**	2,500	2,400	2,100	2,100
5 bottom	Each	**7,350**	7,850	8,800	7,600	6,700
7 bottom	Each	**11,000**	12,300	12,500	11,300	10,000
Disc harrow, tandem, 15-17 ft.	Each	**7,550**	7,650	7,400	6,150	5,850
Grain drill, 15-17 tube	Each	**4,200**	4,250	4,075	4,100	3,800
Cultivators, mounted: 4-row	Each	**2,150**	2,100	2,200	2,350	2,150
6-row	Each	**2,950**	2,800	3,000	3,000	2,700

Prices Paid by Michigan Farmers: Annual Averages (Continued)

COMMODITY	Unit	1985	1984	1983	1982	1981
				Dollars		
FERTILIZERS:						
5-20-20	Ton	**148.00**	164.00	156.00	170.00	173.00
6-24-24	Ton	**176.00**	204.00	190.00	201.00	210.00
12-12-12	Ton	**154.00**	165.00	154.00	174.00	175.00
10-34-0	Ton	**223.00**	251.00	238.00	258.00	271.00
18-46-0	Ton	**230.00**	256.00	236.00	250.00	255.00
Ammonium Nitrate, 33.5% N	Ton	**208.00**	223.00	190.00	194.00	188.00
Anhydrous Ammonia	Ton	**253.00**	283.00	238.00	253.00	254.00
Urea, 45-46% N	Ton	**205.00**	231.00	201.00	220.00	246.00
Nitrogen solution, 28%	Ton	**129.00**	140.00	131.00	136.00	136.00
Super Phosphate, 46%	Ton	**191.00**	216.00	201.00	209.00	228.00
Muriate of Potash, 60%	Ton	**108.00**	130.00	126.00	136.00	141.00
Limestone	Ton	**16.90**	16.75	15.60	14.75	14.60
PESTICIDES:						
2, 4-D, 4 lb./gal. emul.	5 gallon	**49.50**	48.75	55.00	57.00	55.00
Atrazine, WP, 80%	5 lb.	**7.85**	8.60	9.65	10.25	10.75
Sevin, WP, 80%	10 lb.	**27.75**	26.75	29.00	25.75	23.50
Lasso, 4 lb./gal. emul.	5 gallon	**99.00**	98.50	98.00	93.00	84.50
Dyfonate, gran. 20%	50 lb.	**87.00**	83.00	[7]	[7]	[7]
Bladex, 4 lb./gal. liquid	Gallon	**17.70**	17.00	[7]	[7]	[7]
Dual, 8 lb./gal. emul.	Gallon	**47.25**	47.25	[7]	[7]	[7]
Treflan, 4 lb./gal. emul.	5 gallon	**125.00**	133.00	163.00	173.00	165.00
UTILITIES:						
Electricity	Kw-hr.	**.073**	.071	.069	.065	.057
Telephone, Local Service	Month	**13.50**	13.30	12.90	11.60	10.60
LP Gas	Gallon	**.718**	.757	.789	.723	.733

[1] Truck tire, 7.50-16, load range D.
[2] Truck tire, 10.00-20, load range F.
[3] Tractor tire, 18.4-38, 6 ply.
[4] Gravity unload, less tires.
[5] Conveyor type, pto, 2-wheel.
[6] With fertilizer attachment.
[7] Not available.





Energy

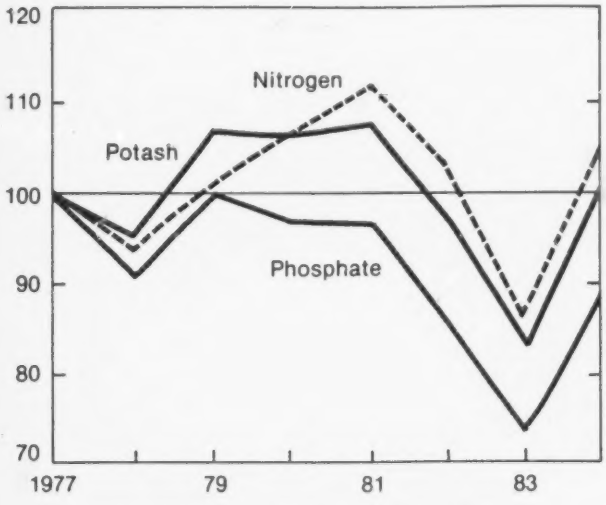
Commercial Fertilizer Usage, Michigan

YEAR[1]	Kind of Fertilizer			Primary Nutrients			
	Mixtures	Direct Application Materials Primary Nutrients	Total[2]	Total Nitrogen	Available Phosphate	Potash	Total NPK[3]
	Tons			*Nutrient Tons*			
1985	**535,041**	**700,573**	**1,254,612**	**251,572**	**141,799**	**236,019**	**629,390**
1984	691,210	793,379	1,513,361	291,340	176,957	295,330	763,627
1983	562,70€	575,150	1,148,652	205,412	144,367	225,322	575,101
1982	664,780	679,070	1,349,329	258,695	178,808	244,206	681,709
1981	680,086	709,215	1,393,553	260,136	176,515	264,912	701,563

[1] Years' end June 30.
[2] Total includes micronutrients not listed separately.
[3] The sums of individual items may not equal totals due to rounding.

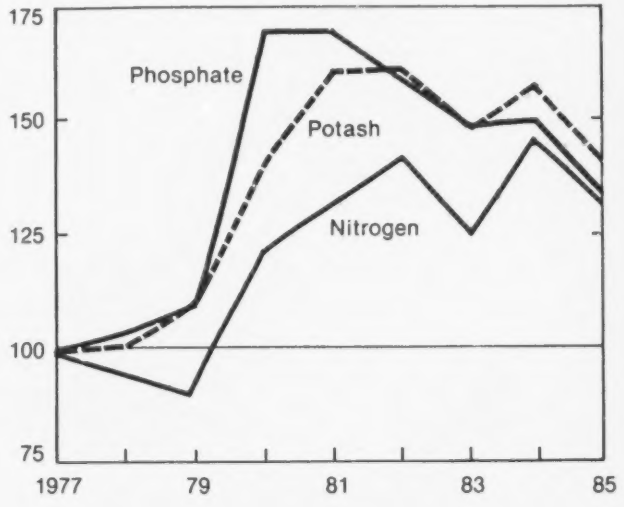
Farm Fertilizer Use U.S.

% of 1977



Prices of Fertilizers U.S.

% of 1977

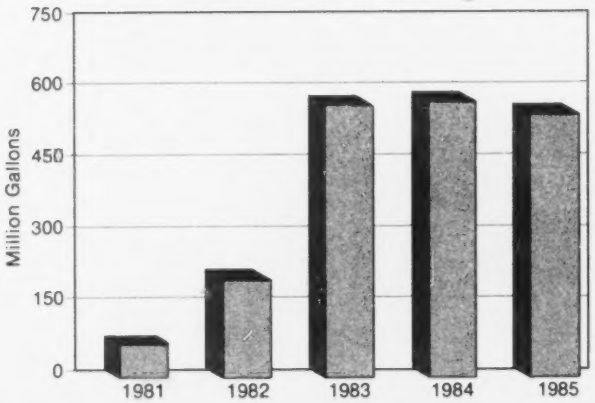


Gasohol Sold in Michigan

MONTHS	**1986**	1985	1984	1983	1982
	1,000 Gallons				
January	**26,461**	46,481	36,656	27,091	7,732
February	**25,283**	40,979	45,887	24,763	6,913
March	**27,879**	42,723	39,274	28,765	10,192
April	**31,844**	42,394	55,066	47,935	9,027
May		45,807	50,558	64,206	7,735
June		43,781	58,436	68,160	11,374
July		41,184	45,892	69,247	13,907
August		55,454	50,823	63,614	20,404
September		46,578	44,058	43,312	21,775
October		51,595	28,951	40,573	39,605
November		41,359	53,910	42,193	26,218
December		50,550	48,211	46,132	31,912
TOTAL		548,885	577,721	565,991	206,794

Source: Department of Treasury.

Gasohol Sales In Michigan



FIELD CROPS

General Information

Production of field crops for food and livestock feed is the nucleus of agriculture in Michigan. The value of field crops at the farm level in 1985 exceeded $1.5 billion. Michigan is the leading state in the production of dry edible beans. It ranks in the top ten states in the production of corn, oats, sugarbeets, hay and potatoes.

The 1985 crop season was highlighted by record yields of all small grains and excellent yields of row crops. Spring planting was completed early. Crop development was pushed by an unusually high accumulation of growing degree days during the spring. There were drought worries in June and July, and yields of spring-planted crops were cut in some areas. Timely mid-summer rains benefited crops in most counties. Heavy rains throughout late summer and fall hindered harvesting during October and November. Many producers had to wait until soils froze in late December and early January to bring in their last fields of soybeans and corn.

Acreage and Production, United States

CROP	Area Harvested		Unit	Yield per Acre		Production	
	1985	1984		**1985**	1984	**1985**	1984
	1,000 Acres					*1,000*	
Corn, for grain	**75,134**	71,915	Bu.	**118.0**	106.7	**8,865,006**	7,674,020
Corn, silage	**7,151**	7,541	Ton	**14.4**	13.9	**102,623**	104,590
Oats	**8,149**	8,163	Bu.	**63.6**	58.0	**518,626**	473,661
Barley	**11,553**	11,231	Bu.	**51.0**	53.4	**589,183**	599,204
Wheat, all	**64,734**	66,928	Bu.	**37.5**	38.8	**2,424,765**	2,594,777
Winter	**47,953**	51,513	Bu.	**38.1**	40.0	**1,827,195**	2,060,266
Durum	**3,094**	3,219	Bu.	**36.4**	32.1	**112,510**	103,439
Other Spring	**13,687**	12,196	Bu.	**35.4**	35.3	**485,060**	431,072
Rye	**717**	981	Bu.	**28.8**	33.1	**20,637**	32,463
Soybeans	**61,584**	66,113	Bu.	**34.1**	28.1	**2,098,531**	1,860,863
Hay, all	**60,553**	61,445	Ton	**2.46**	2.45	**148,959**	150,648
Hay, Alfalfa	**25,673**	26,799	Ton	**3.32**	3.36	**85,291**	90,105
Hay, Other	**34,880**	34,646	Ton	**1.83**	1.75	**63,668**	60,543
Dry Beans	**1,486.4**	1,460.3	Cwt.	**1,498.0**	1,443.0	**22,268**	21,070
Potatoes, all	**1,358.0**	1,301.0	Cwt.	**298.0**	279.0	**404,131**	362,612
Sugarbeets	**1,102.5**	1,096.3	Ton	**20.5**	20.2	**22,636**	22,134
Peppermint, for oil	**65.1**	67.2	Lb.	**66.0**	64.0	**4,317**	4,334
Spearmint, for oil	**30.1**	27.9	Lb.	**77.0**	72.0	**2,317**	2,019

Field Crops Planting & Harvesting Dates

Crop	Usual Planting Dates	Usual Harvesting Dates		
		Begins	Most Active	Ends
Barley	Apr. 15 – May 30	July 15	July 20 – Aug. 5	Aug. 10
Dry Beans	May 25 – July 1	Sept. 1	Sept. 15 – Oct. 5	Nov. 1
Corn:				
Grain	May 1 – June 10	Oct. 1	Oct. 15 – Nov. 15	Dec. 1
Silage	May 1 – June 10	Sept. 1	Sept. 15 – Oct. 15	Oct. 25
Alfalfa Hay	–	June 1	–	Oct. 15
Oats	Apr. 15 – May 25	July 25	Aug. 1 – July 20	Sept. 1
Rye	Aug. 15 – Oct. 15	July 15	July 20 – Aug. 5	Aug. 15
Soybeans	May 10 – June 20	Oct. 5	Oct. 15 – Nov. 15	Nov. 20
Sugarbeets	Apr. 15 – May 15	Oct. 5	Oct. 20 – Nov. 10	Nov. 15
Winter Wheat	Sept. 15 – Nov. 1	July 15	July 20 – Aug. 1	Aug. 10

Source: *USUAL PLANTING AND HARVESTING DATES FOR U.S. FIELD CROPS*, Agriculture Handbook No. 507; U.S. Department of Agriculture.

Field Crop Acreage, Production and Value; Michigan

CROP	YEAR	Acreage		Production			Price Received[1]	Value of Production
		Planted	Harvested	Unit	Per Acre	Total		
		1,000				*1,000*	*Dollars per Unit*	*1,000 Dollars*
CORN, all	**1985**	**3,100**	—	—	—	—	—	—
	1984	3,050	—	—	—	—	—	—
	1983	2,200	—	—	—	—	—	—
	1982	3,150	—	—	—	—	—	—
	1981	3,200	—	—	—	—	—	—
CORN, for grain	**1985**	—	**2,730**	**Bu.**	**105**	**286,650**	**2.35**	**673,628**
	1984	—	2,620	Bu.	84	220,080	2.56	563,405
	1983	—	1,800	Bu.	92	165,600	3.20	529,920
	1982	—	2,740	Bu.	107	293,180	2.55	747,609
	1981	—	2,800	Bu.	96	268,800	2.39	642,432
CORN, silage	**1985**	—	**340**	**Ton**	**13.5**	**4,590**	—	—
	1984	—	400	Ton	11.0	4,400	—	—
	1983	—	380	Ton	13.0	4,940	24.50	121,030
	1982	—	390	Ton	14.0	5,460	19.40	105,924
	1981	—	370	Ton	14.0	5,180	19.80	102,564
WINTER WHEAT	**1985**	**770**	**750**	**Bu.**	**60**	**45,000**	**2.95**	**132,750**
	1984	900	800	Bu.	57	45,600	3.18	145,008
	1983	830	730	Bu.	49	35,770	3.40	121,618
	1982	650	560	Bu.	41	22,960	3.33	76,457
	1981	840	830	Bu.	50	41,500	3.47	144,005
OATS	**1985**	**420**	**390**	**Bu.**	**67**	**26,130**	**1.15**	**30,050**
	1984	370	350	Bu.	62	21,700	1.84	39,928
	1983	450	300	Bu.	52	15,600	1.83	28,548
	1982	475	450	Bu.	63	28,350	1.49	42,242
	1981	360	340	Bu.	62	21,080	1.97	41,528
BARLEY	**1985**	**39**	**38**	**Bu.**	**68**	**2,584**	**2.00**	**5,168**
	1984	35	34	Bu.	60	2,040	2.50	5,100
	1983	35	33	Bu.	49	1,617	2.85	4,608
	1982	38	36	Bu.	59	2,124	2.39	5,076
	1981	27	26	Bu.	54	1,404	2.98	4,184
RYE	**1985**	**135**	**21**	**Bu.**	**31**	**651**	**1.90**	**1,237**
	1984	140	21	Bu.	28	588	2.25	1,323
	1983	135	20	Bu.	30	600	2.05	1,230
	1982	135	18	Bu.	29	522	3.00	1,566
	1981	130	16	Bu.	28	448	2.90	1,299
SOYBEANS	**1985**	**1,100**	**1,080**	**Bu.**	**32.0**	**34,560**	**5.05**	**174,528**
	1984	1,200	1,190	Bu.	27.0	32,130	5.73	184,105
	1983	1,050	1,040	Bu.	32.5	33,800	7.82	264,316
	1982	1,150	1,140	Bu.	31.0	35,340	5.46	192,956
	1981	1,050	1,040	Bu.	30.0	31,200	6.02	187,824
DRY BEANS[2]	**1985**	**440**	**410**	**Cwt.**	**1,320**	**5,412**	**15.80**	**85,510**
	1984	400	390	Cwt.	1,100	4,290	19.60	84,084
	1983	360	350	Cwt.	1,300	4,550	23.20	105,560
	1982	560	550	Cwt.	1,450	7,975	13.70	109,258
	1981	650	590	Cwt.	1,220	7,198	25.60	184,269

Field Crop Acreage, Production and Value; Michigan (Continued)

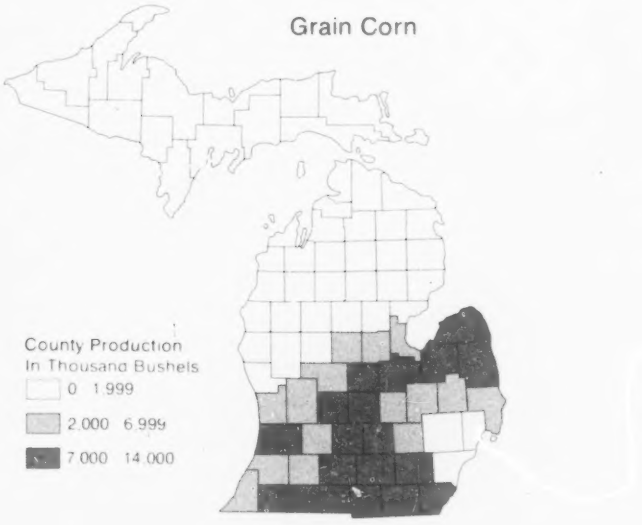
CROP	YEAR	Acreage		Production			Price Received[1]	Value of Production
		Planted	Harvested	Unit	Per Acre	Total		
		1,000				*1,000*	*Dollars per Unit*	*1,000 Dollars*
SUGARBEETS	**1985**	**124.0**	**118.0**	**Ton**	**19.7**	**2,325**	[3]	[3]
	1984	110.0	108.0	Ton	19.6	2,117	34.40	72,825
	1983	106.0	104.0	Ton	19.0	1,976	36.20	71,531
	1982	97.5	96.5	Ton	19.2	1,853	35.80	66,337
	1981	102.0	99.0	Ton	20.5	2,030	26.50	53,795
POTATOES, all	**1985**	**60.0**	**57.8**	**Cwt.**	**262**	**15,136**	**4.40**	**66,895**
	1984	58.0	56.8	Cwt.	266	15,100	5.70	86,122
	1983	55.0	52.8	Cwt.	228	12,023	6.60	79,570
	1982	51.5	49.3	Cwt.	260	12,796	4.65	59,575
	1981	47.0	44.8	Cwt.	235	10,535	6.30	66,554
POTATOES, summer	**1985**	**14.0**	**13.8**	**Cwt.**	**220**	**3,036**	[3]	[3]
	1984	13.0	12.8	Cwt.	200	2,560	6.70	17,152
	1983	12.0	11.8	Cwt.	185	2,183	6.70	14,626
	1982	10.5	10.3	Cwt.	220	2,266	4.45	10,084
	1981	10.0	9.8	Cwt.	200	1,960	7.05	13,818
POTATOES, fall	**1985**	**46**	**44**	**Cwt.**	**275**	**12,100**	[3]	[3]
	1984	45	44	Cwt.	285	12,540	5.50	68,970
	1983	43	41	Cwt.	240	9,840	6.60	64,944
	1982	41	39	Cwt.	270	10,530	4.70	49,491
	1981	37	35	Cwt.	245	8,575	6.15	52,736
HAY, all	**1985**	—	**1,750**	**Ton**	**3.26**	**5,705**	**55.00**	**313,775**
	1984	—	1,750	Ton	3.02	5,285	61.50	325,028
	1983	—	1,400	Ton	3.19	4,470	57.50	257,025
	1982	—	1,370	Ton	3.17	4,347	54.50	236,912
	1981	—	1,270	Ton	3.22	4,094	56.50	231,311
HAY, alfalfa	**1985**	—	**1,400**	**Ton**	**3.60**	**5,040**	—	—
	1984	—	1,400	Ton	3.30	4,620	—	—
	1983	—	1,100	Ton	3.60	3,960	—	—
	1982	—	1,050	Ton	3.50	3,675	—	—
	1981	—	1,000	Ton	3.50	3,500	—	—
HAY, other	**1985**	—	**350**	**Ton**	**1.90**	**665**	—	—
	1984	—	350	Ton	1.90	665	—	—
	1983	—	300	Ton	1.70	510	—	—
	1982	—	320	Ton	2.10	672	—	—
	1981	—	270	Ton	2.20	594	—	—
SPEARMINT, for oil	**1985**	—	**3.3**	**Lb.**	**28**	**92**	**12.10**	**1,113**
	1984	—	3.8	Lb.	33	125	13.60	1,700
	1983	—	3.8	Lb.	31	118	13.00	1,534
	1982	—	3.9	Lb.	32	125	14.30	1,788
	1981	—	3.8	Lb.	31	118	15.50	1,829

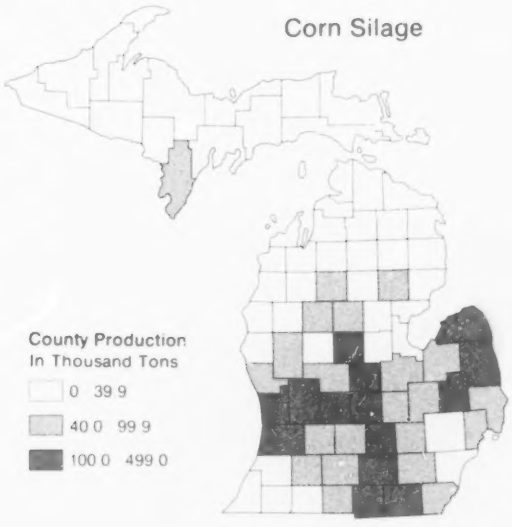
[1] Marketing year.
[2] Production per acre in pounds.
[3] Not available at publication time.

Corn

Corn is the number one crop in Michigan in acreage and value of production. The value of the 1985 corn for grain crop was $674 million. Prices were lower than for the 1984 crop, but production leaped by 30 percent. The State average yield, 105 bushels per acre, was second only to the 1982 yield of 107 bushels per acre. Several counties had record yields in 1985. Production was reduced, however, in some areas by dry weather in early summer. Lenawee, Huron and Hillsdale were the top three counties in corn production.

Michigan ranked eighth among states in corn production. U.S. corn production was a record high 8.87 billion bushels, up 16 percent from 1984. About 58 percent of U.S. corn production is used for feed and about 26 percent is exported. The rest goes for domestic dry milling, wet milling, and distilling or seed.



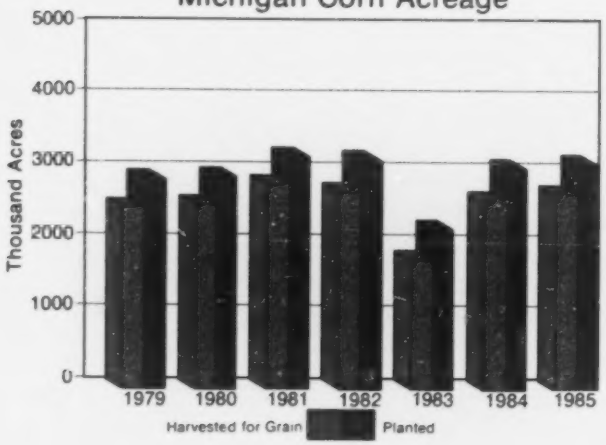


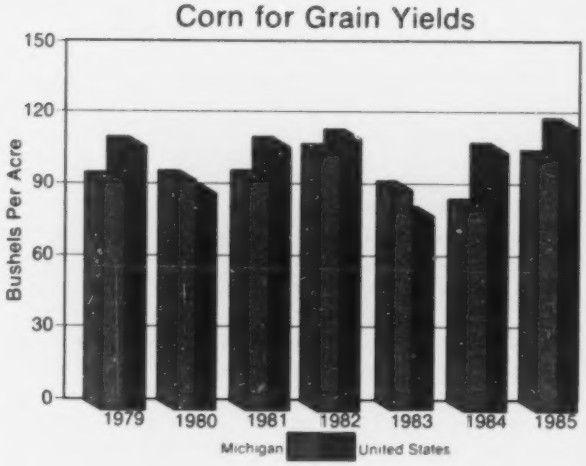
Grain Corn Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1985	**2,730**	**105**	**286,650**
1984	2,620	84	220,080
1983	1,800	92	165,600
1982	2,740	107	293,180
1981	2,800	96	268,800

Corn Silage Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Tons*	*1,000 Tons*
1985	**340**	**13.5**	**4,590**
1984	400	11.0	4,400
1983	380	13.0	4,940
1982	390	14.0	5,460
1981	370	14.0	5,180

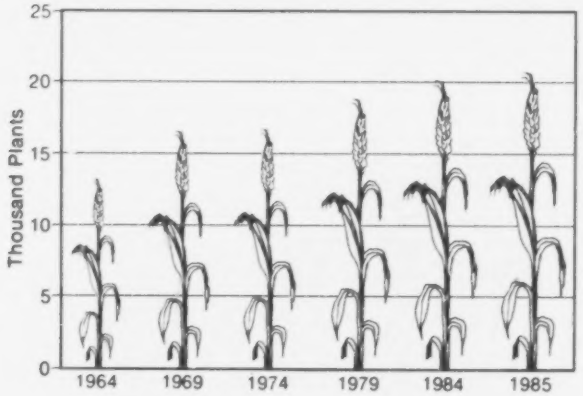




Grain Corn Stocks by Quarter

YEAR	January 1		April 1		June 1		October 1	
	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm
	1,000 Bushels							
1986	**200,655**	**69,095**	**120,393**	**49,122**	**91,728**	**42,527**		
1985	127,646	43,716	88,032	24,932	55,020	18,397	15,406	10,389
1984	107,640	57,400	54,648	31,553	33,120	20,631	8,280	6,234
1983	199,362	58,646	143,658	48,040	117,272	47,658	64,500	41,090
1982	158,592	52,775	118,272	36,145	102,144	27,548	43,008	14,797
1981	128,896	47,234	80,256	26,901	60,800	17,458	17,024	8,779

Corn for Grain: Plant Population Per Acre, Michigan



Corn For Grain: Plant Population per Acre[1]

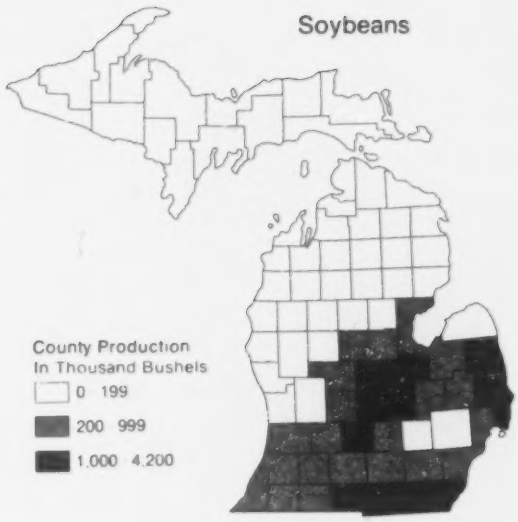
YEAR	Michigan	Illinois	Indiana	Iowa	Minnesota	Ohio	Wisconsin
1985	**20,900**	**22,200**	**21,100**	**21,700**	**22,000**	**22,400**	**21,200**
1984	20,600	21,900	21,000	21,400	21,200	21,500	20,500
1983	19,200	22,000	20,900	21,800	20,700	20,800	20,300
1979	19,000	20,600	20,000	20,300	20,200	20,700	19,600
1974	16,900	18,600	18,700	18,600	18,200	18,900	13,500
1969	16,768	18,605	16,956	17,412	18,175	17,702	17,626
1964	13,358	14,172	14,055	14,288	14,636	14,113	14,752

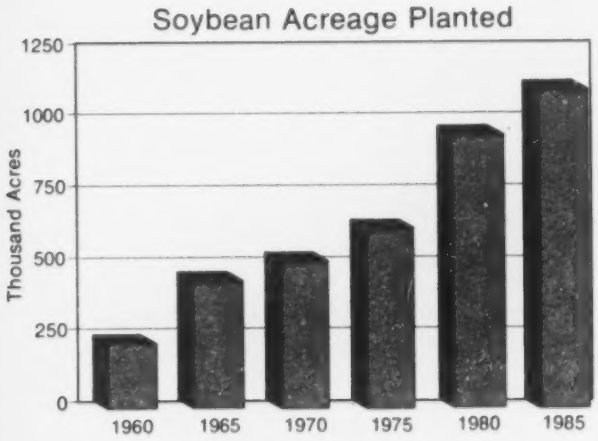
[1] Based on stalk counts in plots selected for objective yield samples.

Soybeans

Soybeans are the third leading Michigan crop in value of production. The 1985 crop was valued at $175 million. In 1985 farmers harvested 35 million bushels, 8 percent above a year earlier. Michigan ranked 17th among all states in soybean output in 1985 with 1.6 percent of total U.S. production. Lenawee, Saginaw, Monroe and Gratiot were the top four counties in soybean production.

Soybeans are the most important U.S. oilseed. Soybean oil is used in cooking oil, margarine, paints, varnishes, adhesives and many other products. Soybean meal is a primary protein source in livestock feed. One 60 pound bushel normally yields about 11 pounds of oil and 47.8 pounds of meal. Michigan exports all of its soybeans to other states or overseas, because there are no crushing facilities in the State.





Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1985	**1,080**	**32.0**	**34,560**
1984	1,190	27.0	32,130
1983	1,040	32.5	33,800
1982	1,140	31.0	35,340
1981	1,040	30.0	31,200

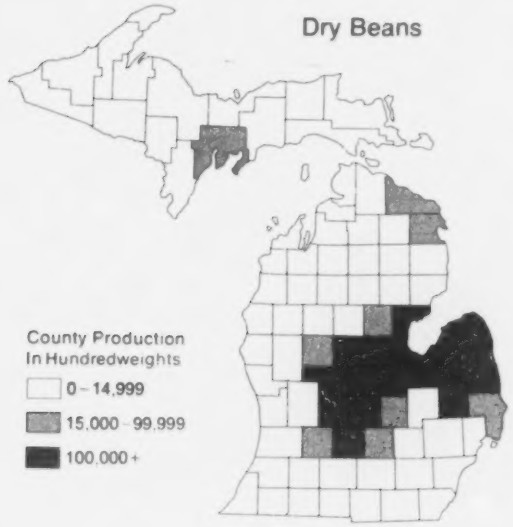
Soybean Stocks by Quarter

YEAR	January 1		April 1		June 1		September 1	
	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm
	1,000 Bushels							
1986	**18,317**	**10,613**	**10,022**	**6,589**	**6,221**	**5,217**		
1985	10,924	11,832	6,426	5,934	3,534	3,812	1,928	2,310
1984	9,126	10,634	5,408	6,095	2,366	3,372	676	1,098
1983	17,670	7,871	10,602	4,017	6,008	3,925	1,767	1,495
1982	12,480	6,718	8,736	4,514	5,304	3,169	1,248	885
1981	9,603	9,406	8,003	6,567	5,762	4,499	1,280	1,465

Dry Beans

Dry beans are an important and valuable commodity to Michigan agriculture. Dry bean production during 1985 totaled just over 5.4 million hundredweight. This represents just over 24 percent of the total U.S. output and ranks Michigan first in dry bean production. Also, 69 percent of all navy beans were Michigan grown. The 1985 crop is valued at $85.5 million. Yields averaged 1,320 pounds per acre on 410,000 harvested acres.

The fertile soils of the Bay-Thumb area and Saginaw Valley are particularly well suited for bean production. Planting was completed ahead of normal and few problems were encountered. However, heavy rains in late August and early September flooded considerable acreage and delayed early harvest.



Dry Bean Production by Kinds

KIND	1985	1984	1983	1982	1981
			1,000 Cwt.		
Navy Beans	**4,355**	3,591	3,750	6,497	4,070
Red Kidney	**398**	260	250	450	335
Cranberry	**261**	185	285	420	320
Pinto	**64**	30	28	120	348
Black Turtle	**165**	35	30	140	1,990
Small White	**125**	170	180	[1]	[1]
Others	**44**	19	27	348	135
Total	**5,412**	4,173	4,550	7,975	7,198

[1] Small white included in "Others."

Dry Bean Acreage, Yield, Production

KIND	Year	Harvested Acres	Yield per Acre	Production
		1,000	*Pounds*	*1,000 Cwt.*
Navy	**1985**	**335**	**1,300**	**4,355**
	1984	342	1,050	3,591
	1983	293	1,280	3,750
	1982	455	1,430	6,497
	1981	370	1,100	4,070
Other Than Navy[1]	**1985**	**75**	**1,409**	**1,057**
	1984	48	1,455	699
	1983	57	1,400	800
	1982	95	1,560	1,478
	1981	220	1,420	3,128
Total	**1985**	**410**	**1,320**	**5,412**
	1984	390	1,100	4,290
	1983	350	1,300	4,550
	1982	550	1,450	7,975
	1981	590	1,220	7,198

[1] Yield derived.

Dry Bean Stocks

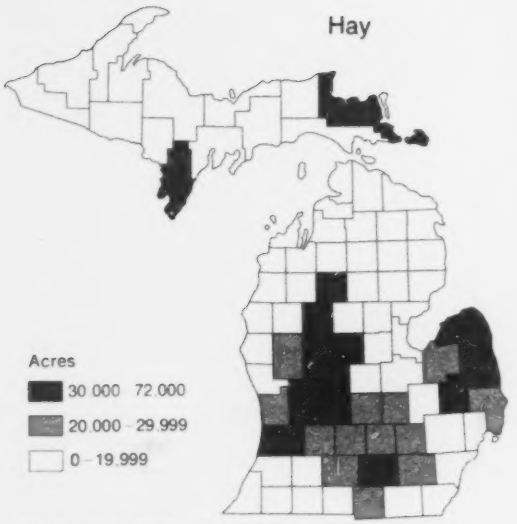
KIND	1985		1984		1983[1]	
	Dec. 31	Aug. 31	Dec. 31	Aug. 31	Dec. 31	Aug. 31
			1,000 Cwt.			
Navy	**2,800**	**460**	2,550	620	3,400	1,400
Other Than Navy	**375**	**110**	275	80	200	200
Total	**3,175**	**570**	2,825	700	3,600	1,600

[1] First year of estimate.

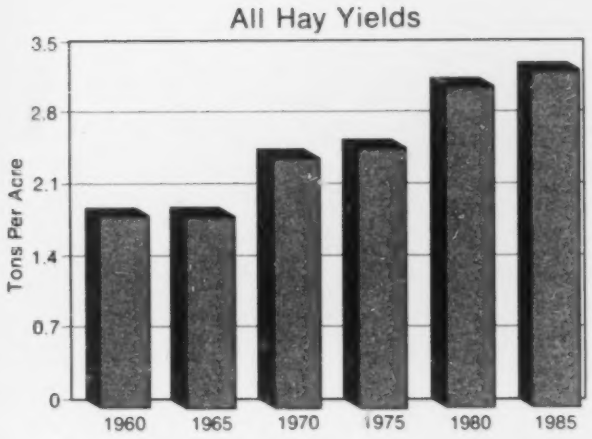
Hay

Hay is Michigan's second leading crop in value of production. The 1985 crop was valued at nearly $314 million. Most hay is grown by dairy or beef cattle farmers for consumption by their own livestock. There is a growing number of producers, however, that are using hay as a cash crop. Hay is sold directly to livestock farmers, to hay brokers or through auctions.

Michigan ranked 9th among all states in hay production in 1985. Production was a record high 5.7 million tons, up 8 percent from 1984. Alfalfa hay was 88 percent of the total hay crop.



Source 1982 Census of Agriculture



Production by Kinds

CROP YEAR	Total	Alfalfa and Alfalfa Mixtures		All Other Kinds	
		Acres	Production	Acres	Production
	1,000 Tons	*1,000*	*1,000 Tons*	*1,000*	*1,000 Tons*
1985	**5,705**	**1,400**	**5,040**	**350**	**665**
1984	5,285	1,400	4,620	350	665
1983	4,470	1,100	3,960	300	510
1982	4,347	1,050	3,675	320	672
1981	4,094	1,000	3,500	270	594

Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Tons*	*1,000 Tons*
1985	**1,750**	**3.26**	**5,705**
1984	1,750	3.02	5,285
1983	1,400	3.19	4,470
1982	1,370	3.17	4,347
1981	1,270	3.22	4,094

Hay Stocks on Farms

YEAR	January 1	May 1
	1,000 Tons	
1986	**3,195**	**742**
1985	2,854	634
1984	2,503	626
1983	2,521	782
1982	2,220	506

Monthly Farm Marketings

Corn

MONTH	CROP YEAR 1984	1983	1982	1981	1980
	Percent				
October	**8**	8	9	6	15
November	**24**	28	18	20	21
December	**8**	13	13	12	10
January	**9**	12	10	8	12
February	**6**	9	9	6	5
March	**12**	10	11	9	6
April	**9**	6	6	10	7
May	**7**	4	6	9	10
June	**6**	5	5	7	4
July	**5**	2	4	7	3
August	**3**	2	5	3	3
September	**3**	1	4	3	4

Soybeans

MONTH	CROP YEAR 1984	1983	1982	1981	1980
	Percent				
September	**1**	4	1	5	14
October	**16**	34	25	15	25
November	**20**	17	22	20	19
December	**5**	8	11	9	3
January	**7**	6	11	9	5
February	**4**	6	6	5	6
March	**10**	7	5	8	6
April	**12**	6	5	12	5
May	**8**	8	2	7	4
June	**8**	2	2	4	4
July	**7**	1	6	3	4
August	**2**	1	4	3	5

Dry Beans

MONTH	CROP YEAR 1984	1983	1982	1981	1980
	Percent				
September	**16**	16	11	14	23
October	**18**	23	24	25	26
November	**7**	10	7	15	11
December	**7**	7	6	9	8
January	**7**	6	7	8	7
February	**5**	7	5	6	6
March	**5**	4	4	6	7
April	**5**	4	6	4	3
May	**9**	4	11	7	4
June	**11**	6	8	4	3
July	**7**	6	5	1	1
August	**3**	7	6	1	1

Wheat

MONTH	CROP YEAR 1984	1983	1982	1981	1980
	Percent				
July	**44**	36	25	41	25
August	**26**	31	26	24	38
September	**6**	5	6	10	18
October	**4**	3	2	4	2
November	**2**	2	4	2	2
December	**4**	6	5	3	1
January	**5**	6	10	3	4
February	**2**	4	7	2	2
March	**2**	3	7	5	2
April	**2**	2	3	2	2
May	**1**	1	3	3	2
June	**2**	1	2	1	2

Oats

MONTH	CROP YEAR 1984	1983	1982	1981	1980
	Percent				
July	**6**	6	4	19	9
August	**35**	37	34	39	46
September	**8**	10	5	5	7
October	**4**	7	2	3	3
November	**3**	5	3	3	3
December	**9**	5	7	4	4
January	**7**	7	8	4	6
February	**7**	8	7	5	5
March	**7**	5	8	7	6
April	**5**	4	11	3	4
May	**6**	4	6	5	4
June	**3**	2	5	3	3

Hay

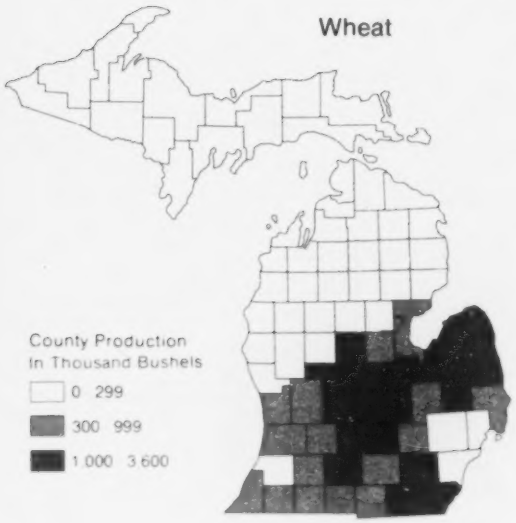
MONTH	CROP YEAR 1984	1983	1982	1981	1980
	Percent				
June	**17**	14	12	14	12
July	**12**	10	9	11	8
August	**8**	6	8	11	9
September	**4**	4	5	7	5
October	**4**	5	4	7	5
November	**7**	6	8	6	4
December	**9**	12	9	9	9
January	**8**	9	9	10	12
February	**6**	6	9	8	10
March	**10**	10	10	8	11
April	**9**	11	9	4	9
May	**6**	7	8	5	6

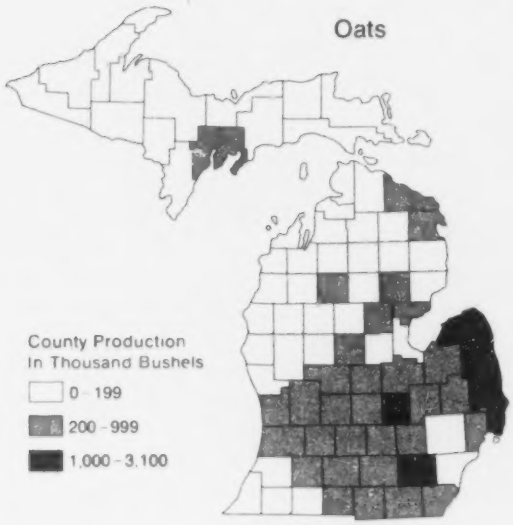
Wheat, Oats, Barley and Rye

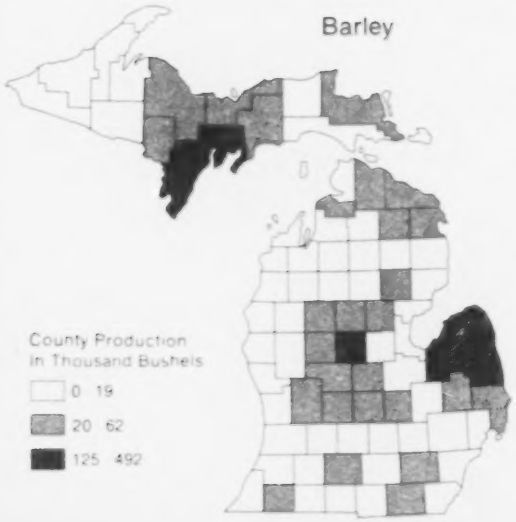
Yield records of all four small grain crops were shattered in 1985. The wheat yield in Michigan reached a new plateau of 60 bushels per acre, three bushels above last year's record. Production on 750,000 harvested acres was 45 million bushels, 1 percent below the 1984 record crop. Wheat growers had ideal weather for the July harvest. Huron, Tuscola and Sanilac were the top three counties in wheat production.

Oats growers also set an average yield record, 67 bushels per acre. Total production on 390,000 harvested acres was 26.1 million bushels. Barley producers in the Great Lakes State produced nearly 2.6 million bushels on 38,000 harvested acres for a yield of 68 bushels per acre. Rye producers harvested a record 31 bushels per acre.

Wheat grown in Michigan is virtually all marketed as a food grain. While a large percentage of oats are also sold, the majority is used on farms as livestock feed. Most barley grown is also used as feed although some is sold for malting. Rye is planted primarily as a winter cover crop.







Source: 1982 Census of Agriculture

Wheat Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1985	**750**	**60**	**45,000**
1984	800	57	45,600
1983	730	49	35,770
1982	560	41	22,960
1981	830	50	41,500

Oats Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1985	**390**	**67**	**26,130**
1984	350	62	21,700
1983	300	52	15,600
1982	450	63	28,350
1981	340	62	21,080

Barley Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1985	**38**	**68**	**2,584**
1984	34	60	2,040
1983	33	49	1,617
1982	36	59	2,124
1981	26	54	1,404

Rye Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1985	**21**	**31**	**651**
1984	21	28	588
1983	20	30	600
1982	18	29	522
1981	16	28	448

Small Grain Stocks by Quarter[1]

CROP	Crop Year	October 1		January 1		April 1		June 1	
		On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm
		1,000 Bushels							
WHEAT	**1985**	**5,400**	**21,232**	**3,600**	**15,513**	**2,250**	**10,425**	**1,800**	**8,431**
	1984	6,384	18,001	3,648	13,839	1,824	8,175	1,368	6,027
	1983	6,081	19,164	4,650	15,680	3,219	9,664	1,789	5,729
	1982	3,444	16,130	2,755	10,050	2,066	7,140	1,607	4,998
	1981	6,225	15,245	4,565	12,802	2,905	9,585	2,490	6,652
OATS	**1985**	**17,768**	**6,262**	**13,065**	**4,593**	[2]	[2]	**2,874**	**2,130**
	1984	14,756	4,123	10,850	2,468	5,859	1,928	2,821	1,404
	1983	11,700	2,863	7,488	1,837	4,056	1,559	2,184	1,067
	1982	17,010	6,820	14,175	3,532	7,088	2,397	5,103	1,601
	1981	13,070	3,197	10,962	1,846	5,270	1,452	2,108	798
BARLEY	**1985**	**1,550**	[3]	**1,163**	[3]	[2]	[2]	[3]	[3]
	1984	1,428	[3]	1,020	[3]	510	[3]	204	[3]
	1983	1,455	[3]	1,213	[3]	728	[3]	404	[3]
	1982	1,593	[3]	1,274	[3]	680	[3]	489	[3]
	1981	842	[3]	562	[3]	281	[3]	183	[3]

[1] Includes interior mills, elevators and warehouses, cereal food processing plants, census merchant mills, terminal and C.C.C. bins.
[2] Effective 1986 only June 1 estimates will be made.
[3] Not published to avoid disclosing individual operations.

Wheat Variety

Wheat acreage for harvest in Michigan in 1986 is estimated at 700,000 acres. About 80 percent, or 560,000 acres are soft white varieties while 140,000 acres, 20 percent, are soft red varieties. The breakdown of acreage by class comes from a wheat variety survey conducted in May by the Federal/State Michigan Agricultural Statistics Service with major funds provided by the Michigan State Millers Association. The red and white variety percentages were the same as for the 1985 crop. In 1984, soft white varieties accounted for about 79 percent of total acreage. The percentage of white wheat acreage has inched upward since 1979, when 74 percent of the acreage was soft white. Michigan ranks fourth in white wheat acreage following Washington, Oregon and Idaho.

Frankenmuth, a soft white wheat, continues to be the most popular variety in Michigan accounting for about 51 percent of the acreage, 2 percent less than last year. Augusta increased to 23 percent of the acreage, up nearly 5 percent from 1985. A major change took place in soft red varieties where Hillsdale is now the leading variety. About 9 percent of Michigan's 1986 wheat acreage is Hillsdale, whereas last year Hillsdale accounted for less than 2 percent. Caldwell and Pioneer acreage combined accounts for over 7 percent of the Michigan total. These 5 leading varieties account for 90 percent of Michigan's wheat acreage.

Michigan soft white wheat is milled into a flour used primarily in breakfast cereal, pie crust and cookies baked from a light-textured dough. Soft red wheat flour is used by manufacturers of cake mixes, doughnuts and cookies of a heavy dough.

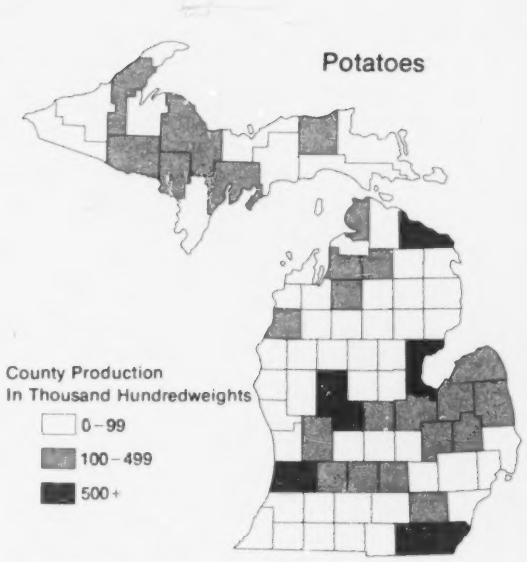
Michigan Wheat Acreage: Acres for Harvest by Variety — 1986

CLASS & VARIETY	Crop Reporting Districts 1	2	3	4	5	6	7	8	9	State Total
	Acres									
Soft White Winter										
Augusta	600	1,500	2,200	200	26,000	64,000	17,000	34,500	12,000	158,000
Frankenmuth	900	3,300	6,500	8,300	47,000	70,000	22,500	148,000	48,500	355,000
Frederick	—	1,500	—	—	1,700	1,000	5,300	7,700	1,800	19,000
Genesee	—	—	—	700	1,400	—	1,600	2,700	600	7,000
Ionia	—	—	—	—	200	—	—	1,200	600	2,000
Tecumseh	—	—	—	—	2,100	900	—	1,800	200	5,000
Yorkstar	—	—	—	—	—	1,200	—	600	200	2,000
Unknown & Other[1]	—	—	100	—	800	2,900	1,600	3,500	3,100	12,000
TOTAL	1,500	6,300	8,800	9,200	79,200	140,000	48,000	200,000	67,000	560,000
Soft Red Winter										
Arthur	—	—	—	—	—	—	4,000	1,200	4,800	10,000
Caldwell	—	—	—	—	—	—	1,400	5,300	14,300	21,000
Hart	—	—	—	—	—	—	—	—	1,000	1,000
Hillsdale	—	—	—	—	—	7,200	800	18,500	36,500	63,000
Pioneer	—	—	200	—	—	1,900	2,400	6,000	20,500	31,000
Titan	—	—	—	—	—	800	2,400	2,000	2,800	8,000
Unknown & Other[1]	—	—	—	—	800	100	—	2,000	3,100	6,000
TOTAL	—	—	200	—	800	10,000	11,000	35,000	83,000	140,000
STATE TOTAL	1,500	6,300	9,000	9,200	80,000	150,000	59,000	235,000	150,000	700,000

[1] Includes minor and unknown varieties.

Potatoes

Potatoes are grown throughout the State. Michigan ranked tenth among states in production in 1985. About two-thirds of Michigan potatoes are whites and are sold for table use or for potato chips. The remainder are virtually all russets used for french fries and other frozen products. Montcalm and Bay are the leading counties in potato acreage. The 1985 crop was the largest since 1938. There was an above normal amount of dumpage during the storage season.



Total Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Cwt.*	*1,000 Cwt.*
1985	**57.8**	**262**	**15,136**
1984	56.8	266	15,100
1983	52.8	228	12,023
1982	49.3	260	12,796
1981	44.8	235	10,535

Production and Disposition

SEASON	Year	Production	Total Used for Seed[1]	Used on Farm Where Grown		Sold
				For Seed, Feed and Household Use	Shrink & Loss	
				1,000 Cwt.		
SUMMER	**1985**	**3,036**	[2]	[2]	[2]	[2]
	1984	2,560	273	69	199	2,292
	1983	2,183	260	66	87	2,030
	1982	2,266	240	86	104	2,076
	1981	1,960	210	67	204	1,689
FALL	**1985**	**12,100**	[2]	[2]	[2]	[2]
	1984	12,540	920	250	1,190	11,100
	1983	9,840	900	260	830	8,750
	1982	10,530	817	190	780	9,560
	1981	8,575	800	202	1,098	7,275
TOTAL	**1985**	**15,136**	[2]	[2]	[2]	[2]
	1984	15,100	1,193	319	1,389	13,392
	1983	12,023	1,160	326	917	10,780
	1982	12,796	1,057	276	884	11,636
	1981	10,535	1,010	269	1,302	8,964

[1] Includes seed purchased and seed used on farms where grown.
[2] Not available at publication time.

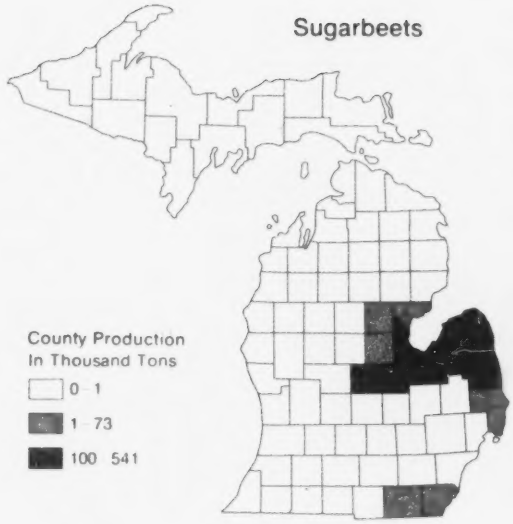
Fall Potato Stocks

CROP YEAR	December 1	January 1	February 1	March 1	April 1	May 1
			1,000 Cwt.			
1985	**8,000**	**6,600**	**5,300**	**4,100**	**2,600**	**1,500**
1984	8,000	6,500	5,300	4,100	2,800	1,800
1983	6,600	5,400	4,400	3,300	2,100	1,000
1982	7,600	6,400	5,400	4,200	2,800	1,600
1981	5,800	4,600	3,500	2,500	1,600	800

Sugarbeets

Sugarbeet production during 1985 was 2.3 million tons, up 10 percent from 1984. Michigan ranked fifth among all states in production with 10 percent of the U.S. total. The 1984 sugarbeet crop was worth $73 million to farmers in Michigan. Tuscola, Huron and Bay were the top three counties in beet production in 1985.

Sugarbeets are grown for sugar. All sugarbeet acreage is contracted to processing plants, which refine the beets into sucrose. Despite increased competition from corn fructose and artificial sweeteners, sugarbeet producers in Michigan have been increasing acreage in recent years.



Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Tons*	*1,000 Tons*
1985	**118.0**	**19.7**	**2,325**
1984	108.0	19.6	2,117
1983	104.0	19.0	1,976
1982	96.5	19.2	1,853
1981	99.0	20.5	2,030

Spearmint

Source 1982 Census of Agriculture

Michigan's 1985 spearmint crop totaled 92,000 pounds of oil with a value of over 1.1 million dollars. High winds during the growing season destroyed some acreage. Average yields were the lowest since 1977 because of dry weather and wind damage.

Most Michigan spearmint goes to processors which produce oil to be further refined for use in such products as gum, medicine, soap and toothpaste. Fresh mint leaves are used in restaurants for garnishes. The major producing area is Central Lower Michigan. Michigan ranks sixth nationwide in spearmint production.

Acreage, Yield, Production

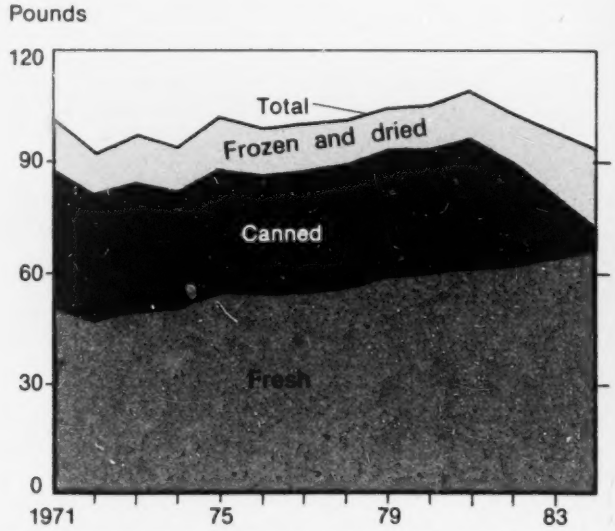
YEAR	Acres Harvested	Production – Oil	
		Per Acre	Total
		Pounds	*1,000 Pounds*
1985	**3,300**	**28**	**92**
1984	3,800	33	125
1983	3,800	31	118
1982	3,900	32	125
1981	3,800	31	118

FRUIT

General Information

Michigan is one of the major fruit producing states in the Nation. This is largely due to the moderating influence that Lake Michigan has on the weather. The fruit industry is concentrated along the western coast of the Lower Peninsula where the "lake effect" is strongest. Cold air passing over the unfrozen lake in the winter is warmed while hot air passing over in the summer is cooled. The moderate climate that results is ideal for fruit production. The "lake effect" during the spring delays fruit tree bloom. This helps to insure that the possibility of freeze damage will be lessened. Overall production of Michigan's seven major fruit crops during 1985 rose almost 28 percent to almost 1.6 billion pounds. The growing season started with no major freezes and excellent pollinating weather. Growing conditions after spring remained generally excellent throughout the state. These favorable conditions led to a production increase in apples, tart cherries, peaches and grapes. Apple production at 1.1 billion pounds set a state record and lifted Michigan's state ranking to second nationwide. Sweet cherries, pears and prunes and plums registered decreases from the previous year. Overall, the value of Michigan's fruit production rose by 9 percent. This increase was realized solely because of the 29 percent increase in production.

Per Capita Consumption of Noncitrus Fruit, U.S.



1984 preliminary. Fresh-equivalent basis. Canned includes fruit and juice. Some canned data no longer reported.

Fruit Harvesting & Marketing Dates

Fruit	Usual Harvesting Dates			Usual Marketing Dates	
	Begins	Most Active	Ends	Begins	Ends
Apples	July 10	Sept. 5 – Oct. 30	Nov. 5	July 10	June 30
Cherries:					
Sweet	June 25	July 1 – July 20	July 30	June 25	July 30
Tart	July 1	July 5 – Aug. 10	Aug. 25	July 1	Aug. 25
Grapes	Aug. 25	Sept. 15 – Oct. 25	Oct. 30	Aug. 25	Oct. 30
Peaches	July 25	Aug. 10 – Sept. 20	Oct. 5	July 25	Oct. 5
Pears	Aug. 10	Aug. 15 – Sept. 25	Oct. 5	Aug. 10	Nov. 1
Prunes & Plums	Aug. 20	Aug. 25 – Sept. 25	Oct. 10	Aug. 20	Oct. 25

Source: *FRUIT AND TREE NUTS*, Agriculture Handbook No. 186; U.S. Department of Agriculture.

Trees, Acres, Production and Value

FRUIT	YEAR	Trees of Bearing Age		Production		Price Received	Value of Production
		Number	Acres	Total	Utilized		
		1,000	*1,000*	*Million Pounds*		*Dollars per Cwt.*	*1,000 Dollars*
APPLES[1]	**1985**	**4,100**	**50.0**	**1,100**	**1,100**	**6.80**	**75,000**
	1984	3,900	48.0	770	770	8.00	61,960
	1983	3,700	46.5	750	750	7.70	57,540
	1982	3,500	44.5	980	980	6.90	68,000
	1981	3,300	44.0	660	660	9.10	59,760
TART CHERRIES	**1985[2]**	**3,250**	**33.3**	**220**	**215**	**24.40**	**52,395**
	1984[2]	3,200	33.3	210	195	25.40	49,555
	1983	2,850	29.7	87	87	49.10	42,721
	1982	2,600	27.0	260	195	13.70	26,805
	1981	2,650	27.8	88	88	46.40	40,788
SWEET CHERRIES	**1985**	**625**	**7.5**	**62**	**62**	**25.00**	**15,500**
	1984	625	7.5	66	62	21.15	13,120
	1983	625	7.5	36	36	23.00	8,272
	1982	625	7.5	62	51	19.90	10,160
	1981	675	8.1	46	46	18.75	8,635
PEACHES	**1985**	**600**	**5.6**	**55**	**55**	**20.90**	**11,515**
	1984	525	4.9	45	45	17.10	7,700
	1983	475	4.5	35	35	21.50	7,526
	1982	400	3.8	50	50	20.90	10,459
	1981	425	4.1	35	35	19.20	6,734
				Tons		*Dollars per Ton*	
GRAPES[3]	**1985**	**5,600**	**12.0**	**51,000**	**51,000**	**164**	**8,378**
	1984	5,800	12.4	49,000	49,000	166	8,131
	1983	5,900	12.5	60,000	60,000	194	11,662
	1982	5,900	12.5	58,500	58,500	201	11,758
	1981	6,100	12.7	53,000	53,000	252	13,370
PEARS	**1985**	**140**	**1.5**	**8,000**	**8,000**	**242**	**1,933**
	1984	150	1.6	11,000	11,000	219	2,404
	1983	165	1.7	8,000	8,000	237	1,899
	1982	180	1.9	12,000	11,000	220	2,418
	1981	200	2.1	9,000	9,000	224	2,016
PRUNES AND PLUMS	**1985**	**275**	**2.8**	**11,000**	**11,000**	**299**	**3,285**
	1984	275	2.8	12,000	12,000	276	3,310
	1983	275	2.8	12,000	12,000	197	2,366
	1982	275	2.8	10,000	10,000	256	2,565
	1981	300	3.1	16,000	16,000	140	2,237

[1] Commercial.
[2] Production defined as "production available for harvest."
[3] Vines of bearing age.

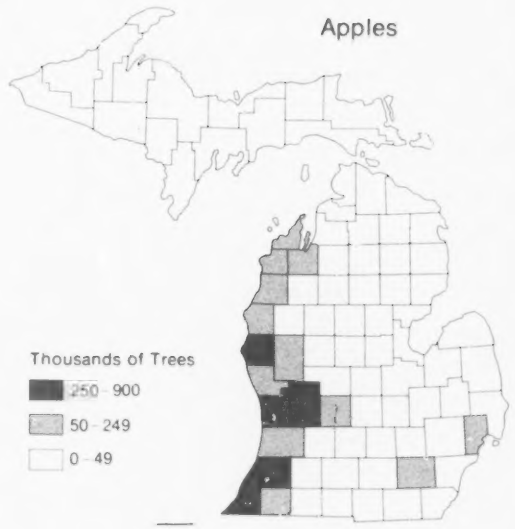
Fruit Total Acreage, Production and Value[1]

YEAR	Acres of Bearing Age	Production		Value of Utilized Production	
		Total	Utilized	Average	Total
	1,000	*Million Pounds*		*Dollars per Cwt.*	*1,000 Dollars*
1985	**112.7**	**1,577**	**1,572**	**10.69**	**168,006**
1984	110.5	1,235	1,216	12.02	146,180
1983	105.2	1,068	1,068	12.36	131,986
1982	100.0	1,513	1,435	9.21	132,165
1981	101.9	985	985	13.56	133,540

[1] Includes apples, peaches, tart cherries, sweet cherries, pears, prunes-plums and grapes.

Apples

Michigan apple production at 1.1 billion pounds was 43 percent higher than last year and set a state record. Excellent weather during bloom resulted in a large fruit set. This, combined with timely rains which helped fruit sizing, plus many new bearing trees coming into production were the main reasons for the record crop. Michigan jumped into second place nationally with this record harvest. Total value of production was 21 percent above 1984. The majority of the State's crop is processed, with juice and cider being the main utilization. Bearing trees have increased by about 41 percent since 1979.



Trees, Production and Value[1]

YEAR	Trees of Bearing Age	Total Production	Value of Production
	1,000	*Million Pounds*	*1,000 Dollars*
1985	**4,100**	**1,100**	**75,000**
1984	3,900	770	61,960
1983	3,700	750	57,540
1982	3,500	980	68,000
1981	3,300	660	59,760

[1] Commercial.

Production, Utilization and Price

YEAR	Total Production	Fresh Market		Processing		Total Utilization	
		Quantity	Price per Pound	Quantity	Price per Pound	Quantity	Price per Pound
	Million Pounds	*Million Pounds*	*Cents*	*Million Pounds*	*Cents*	*Million Pounds*	*Cents*
1985	**1,100**	[1]	[1]	[1]	[1]	**1,100**	**6.80**
1984	770	290	11.60	480	5.90	770	8.00
1983	750	270	11.00	480	5.80	750	7.70
1982	980	365	9.70	615	5.25	980	6.90
1981	660	240	13.00	420	6.80	660	9.10

[1] Not available at publication time.

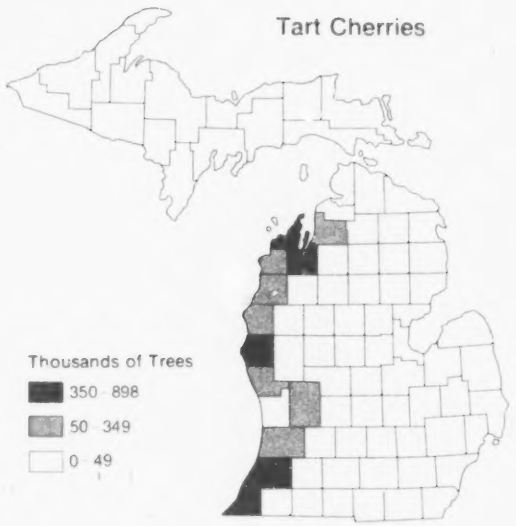
Processing Apple Utilization and Prices

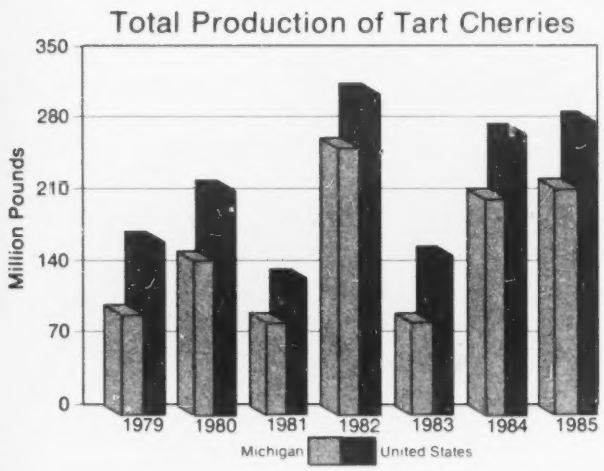
YEAR	Canned		Frozen		Juice and Cider		Other	
	Quantity	Price per Pound	Quantity	Price per Pound	Quantity	Price per Pound	Quantity	Price per Pound
	Million Pounds	*Cents*	*Million Pounds*	*Cents*	*Million Pounds*	*Cents*	*Million Pounds*	*Cents*
1985	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
1984	138	6.90	85	8.30	253	4.60	4	5.50
1983	115	6.20	82	9.00	278	4.70	5	5.10
1982	143	6.35	96	7.20	367	4.30	9	6.00
1981	103	7.25	98	8.10	216	6.00	3	8.00

[1] Not available at publication time.

Tart Cherries

The 1985 tart cherry production in Michigan totaled 220 million pounds, almost 5 percent higher than the previous year's production. Growing conditions were excellent throughout the season, except for spotty hailstorms and windy weather during harvest. Quality was generally excellent throughout the year. The crop's total value was 6 percent higher than the previous year. This increase was due to the 10 percent increase in utilized production from 1984. Michigan continues to maintain its status as the Nation's leading producer of tart cherries with almost 77 percent of the total U.S. output. There has been and will continue to be substantial increases in bearing trees due to the heavy plantings in the late 1970's and 1980. This increase greatly expands the crops future production potential.





Production by Region

REGION	1985[1]	1984[1]	1983	1982	1981
	Million Pounds				
Northwest	**105**	115	50	137	35
West Central	**70**	45	12	64	24
Southwest	**44**	48	24	57	28
Other	**1**	2	1	2	1
State Total	**220**	210	87	260	88

[1] Production defined as production available for harvest.

Trees, Acres, Production and Value

YEAR	Trees of Bearing Age		Production		Price Received	Value of Production
	Number	Acres	Total	Utilized		
	1,000	*1,000*	*Million Pounds*		*Dollars per Cwt.*	*1,000 Dollars*
1985[1]	**3,250**	**33.3**	**220**	**215**	**24.40**	**52,395**
1984[1]	3,200	33.3	210	195	25.40	49,555
1983	2,850	29.7	87	87	49.10	42,721
1982	2,600	27.0	260	195	13.70	26,805
1981	2,650	27.8	88	88	46.40	40,788

[1] Production defined as production available for harvest.

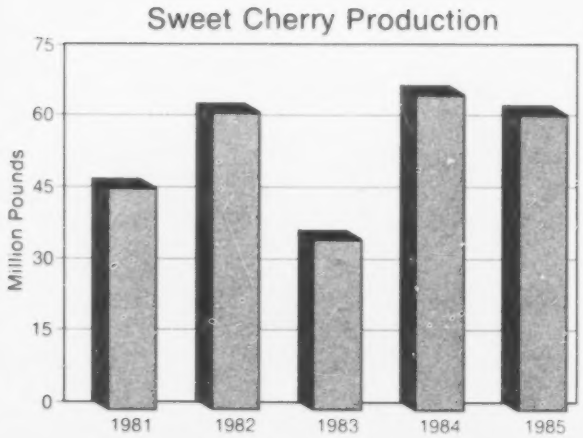
Tart Cherries Production and Utilization

YEAR	Total Production	Utilized Production	Fresh Market	Utilization of Sales Processed		
				Canned	Frozen	Other
	Million Pounds					
1985[1]	**220**	**215**	**5**	**45**	**162**	**3**
1984[1]	210	195	5	54	130	6
1983	87	87	2	18	65	2
1982	260	195	5	55	132	3
1981	88	88	2	27	58	1

[1] Production defined as production available for harvest.

Sweet Cherries

The 1985 Michigan sweet cherry production was down 6 percent from the previous year's large crop. Growing conditions were generally excellent throughout the entire crop season. Quality was also very good. Sweet cherry value increased 18 percent from the previous year. Michigan ranks second nationally in the production of sweet cherries. Bearing tree numbers remained the same as the previous year.



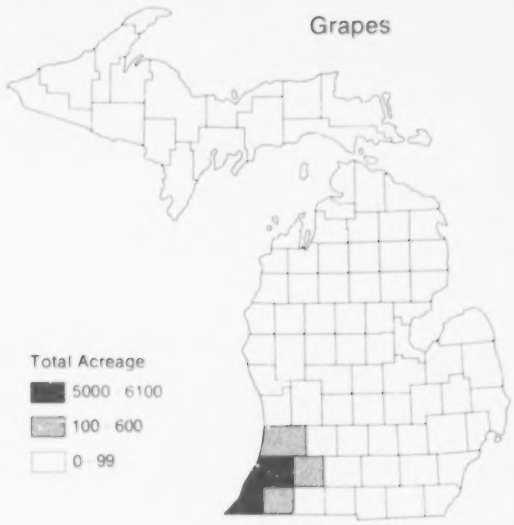
Production and Utilization

YEAR	Total Production	Utilized Production	
		Fresh	Processed
	Million Pounds		
1985	**62**	**6**	**56**
1984	66	6	56
1983	36	4	32
1982	62[1]	4	47
1981	46	3	43

[1] Total production includes unutilized production of 11 million lbs. (8 million lbs. unharvested, 3 million lbs. harvested not sold.)

Grapes

The Michigan grape harvest increased 4 percent from the small 1984 crop. The grape crop was affected by rains prior to and during harvest, but the Brix was very high and the overall quality was rated "vintage." Number of bunches were up, while berries per bunch were down from last year. Berry weight per vine was virtually unchanged from 1984. The Concord variety accounts for about 90 percent of Michigan's production. Most of the State's grape crop is processed into juice. A small but significant wine industry has developed in the State. Michigan was the Nation's fourth largest producer of grapes in 1985.



Vines, Acres, Production and Value

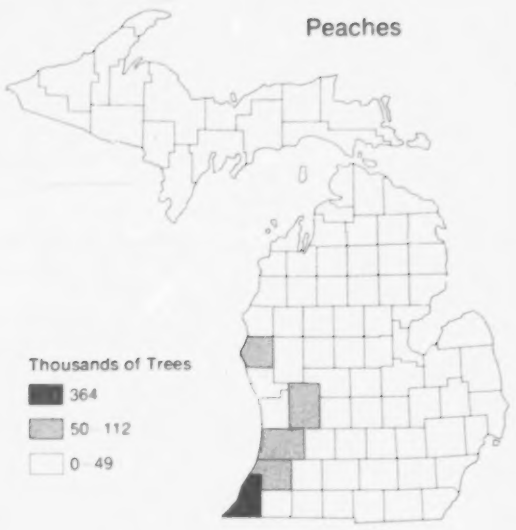
YEAR	Vines of Bearing Age		Production		Price Received	Value of Production
	Number	Acres	Total	Utilized		
	1,000	*1,000*	*Tons*		*Dollars per Ton*	*1,000 Dollars*
1985	**5,600**	**12.0**	**51,000**	**51,000**	**164**	**8,378**
1984	5,800	12.4	49,000	49,000	166	8,131
1983	5,900	12.5	60,000	60,000	194	11,662
1982	5,900	12.5	58,500	58,500	201	11,758
1981	6,100	12.7	53,000	53,000	252	13,370

Production and Utilization

YEAR	Total Production	Utilized Production	Fresh Market Utilization	Processed Utilization	
				Juice	Wine
			Tons		
1985	**51,000**	**51,000**	**1,500**	**47,500**	**2,000**
1984	49,000	49,000	1,700	45,900	1,400
1983	60,000	60,000	1,800	55,000	3,200
1982	58,500	58,500	2,000	53,400	3,100
1981	53,000	53,000	1,600	48,400	3,000

Peaches

The 1985 peach crop encountered excellent growing conditions. Size and quality were outstanding. Production was up 22 percent from a year ago. Crop value was up almost 50 percent. Growers have increased the rate of new plantings and bearing trees have risen 50 percent since 1982. Michigan ranked 5th among peach producing states during 1985.



Prunes and Plums

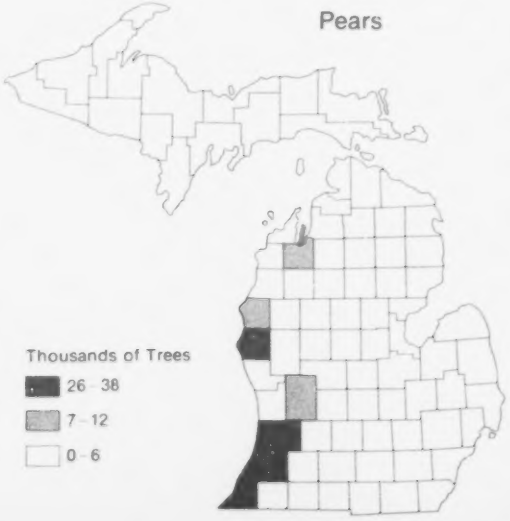
Prune-plum production in Michigan during 1985 fell 8 percent compared to a year ago. Fruit size was excellent, but rains prior to harvest reduced the sugar content. Price per ton was up 8 percent while total crop value was 1 percent lower. Michigan was the Nation's third leading producer of prune-plums in 1985. Bearing tree numbers have leveled off in recent years, but a decline of almost a third has occurred since 1979. New plantings during the late 70's and early 80's have helped stabilize the bearing tree numbers.

Production and Utilization

YEAR	Total Production	Utilized Production	
		Fresh	Processed
	Tons		
1985	**11,000**	**4,400**	**6,600**
1984	12,000	5,500	6,500
1983	12,000	5,800	6,200
1982	10,000	5,900	4,100
1981	16,000	7,400	8,600

Pears

The 1985 Michigan pear production was substantially below last year with good quality being the rule. Production was 27 percent below the 1984 harvest. The pear price was up almost 11 percent, while the total value was down almost 20 percent. Since 1979 bearing pear tree numbers have declined 44 percent. Michigan remains the Nation's fifth largest producer of pears.



VEGETABLES

Michigan vegetable growers produced over 14.4 million hundredweight (cwt.) of fresh and processing vegetables, excluding strawberries, in 1985. This represents a 5 percent decrease from 1984. Growing conditions were hampered by high winds, spotty hailstorms and dry weather during May and June. Rain late in the season caused acreage to be abandoned. Harvested acreage totaled 107,800 acres, a 2 percent increase from 1984. Value of production for all vegetables was $127.2 million, a 6 percent decrease from last year.

Most of the states vegetables are grown in the southern half of the Lower Peninsula. Michigan's muck soils are utilized for growing crops such as onions, carrots, celery and lettuce. There are ample markets for both processing and fresh market vegetables. Processing vegetables are utilized by both in and and out of state processors. Michigan grown produce is shipped to major markets throughout the nation.

Total Vegetable Acreage, Production and Value

YEAR	Acres Planted	Acres Harvested	Production	Value
			1,000 Cwt.	*1,000 Dollars*
1985[1]	**113,800**	**107,800**	**14,437**	**127,201**
1984[1]	110,800	106,200	15,189	134,757
1983[2]	66,700	64,400	11,675	114,739
1982[2]	66,900	64,300	12,472	90,744

[1] Includes asparagus, carrots, cauliflower, celery, sweet corn, lettuce, onions, tomatoes, processing snap beans, processing green peas and cucumbers for pickles.
[2] All crops included in footnote one except asparagus and cucumbers for pickles.

Dual Purpose Vegetable Disposition and Value[1]

CROP	Year	Fresh Market			Processing		
		Production	Price Received	Value of Production	Production	Price Received	Value of Production
		1,000 Cwt.	*Dollars per Cwt.*	*1,000 Dollars*	*Tons*	*Dollars per Ton*	*1,000 Dollars*
Asparagus	**1985**	**36**	**71.00**	**2,556**	**9,720**	**1,118.00**	**10,867**
	1984	38	66.00	2,508	9,600	1,126.00	10,810
	1983[2]	—	—	—	—	—	—
	1982[2]	—	—	—	—	—	—
	1981	53	72.00	3,816	5,900	1,165.00	6,874
Carrots	**1985**	**1,110**	**13.20**	**14,652**	**27,710**	**57.60**	**1,596**
	1984	1,425	13.20	18,810	30,000	51.70	1,551
	1983	1,133	15.30	17,335	26,130	48.40	1,265
	1982	1,092	10.30	11,248	30,860	52.50	1,620
	1981	830	13.50	11,205	24,300	49.50	1,203
Strawberries	**1985**[3]	**100**	**42.90**	**4,290**	**3,150**	**638.00**	**2,010**
	1984	146	41.40	6,044	2,150	480.00	1,032
	1983	115	55.00	6,325	2,350	888.00	2,087
	1982	173	55.00	9,515	2,150	912.00	1,961
	1981	137	49.20	6,740	1,950	798.00	1,556

[1] Disposition data not publishable for cauliflower and celery.
[2] No estimates made.
[3] Total production excludes 23,000 cwt. not harvested because of economic conditions.

Dual Purpose Vegetable Acreage, Production and Value

CROP	Year	Acres		Production		Price Received	Value of Production
		Planted	Harvested	Per Acre	Total		
				Cwt.	*1,000 Cwt.*	*Dollars per Cwt.*	*1,000 Dollars*
Asparagus	**1985**	**20,000**	**19,200**	**12**	**230**	**58.40**	**13,423**
	1984	20,000	19,200	12	230	57.90	13,318
	1983[1]	—	—	—	—	—	—
	1982[1]	—	—	—	—	—	—
	1981	20,000	19,000	9	171	62.50	10,690
Carrots	**1985**	**7,400**	**6,400**	**260**	**1,664**	**9.76**	**16,248**
	1984	7,600	7,500	270	2,025	10.10	20,361
	1983	7,400	7,200	230	1,656	11.20	18,600
	1982	7,500	6,700	255	1,709	7.53	12,868
	1981	7,000	5,600	235	1,316	9.43	12,408
Cauliflower	**1985**	**1,700**	**1,500**	**65**	**98**	**33.90**	**3,324**
	1984	1,600	1,500	65	98	35.10	3,441
	1983	1,600	1,400	55	77	35.30	2,717
	1982	1,600	1,500	58	87	29.50	2,569
	1981	1,400	1,200	62	74	38.60	2,854
Celery	**1985**	**3,400**	**3,200**	**410**	**1,312**	**10.60**	**13,844**
	1984	4,000	3,900	400	1,560	9.87	15,403
	1983	3,600	3,500	370	1,295	12.70	16,504
	1982	3,500	3,300	470	1,551	10.60	16,400
	1981	3,400	3,200	450	1,440	11.00	15,784
Strawberries	**1985**	**2,600**	**2,500**	**65**	**163[2]**	**38.70**	**6,300**
	1984	2,800	2,700	70	189	37.40	7,076
	1983	2,800	2,700	60	162	51.90	8,412
	1982	2,800	2,700	80	216	53.10	11,476
	1981	2,800	2,700	65	176	47.10	8,296

[1] No estimates made.
[2] Total production excludes 23,000 cwt. not harvested because of economic conditions.

Processing Vegetable Acreage, Production and Value[1]

CROP	Year	Acres		Production		Price Received	Value of Production
		Planted	Harvested	Per Acre	Total		
				Tons		*Dollars per Ton*	*1,000 Dollars*
Snap Beans	**1985**	**19,000**	**18,700**	**2.60**	**48,620**	**158.00**	**7,682**
	1984	18,400	17,500	2.80	49,000	136.00	6,664
	1983	15,100	14,800	2.80	41,440	144.00	5,967
	1982	14,600	14,200	2.58	36,640	145.00	5,313
	1981	14,600	14,300	2.53	36,180	160.00	5,789
Cucumbers for Pickles	**1985**	**25,000**	**24,000**	**5.60**	**134,400**	**158.00**	**21,235**
	1984	22,000	21,300	5.50	117,150	147.00	17,221
	1983[2]	—	—	—	—	—	—
	1982[2]	—	—	—	—	—	—
	1981	16,300	15,500	6.50	100,750	135.00	13,601
Tomatoes	**1985**	**6,800**	**6,600**	**25.20**	**166,320**	**80.00**	**13,306**
	1984	8,000	7,400	23.50	173,900	84.00	14,608
	1983	9,300	9,200	19.90	183,080	84.00	15,379
	1982	9,800	9,700	21.10	204,670	92.60	18,952
	1981	6,400	6,200	19.08	118,300	86.00	10,174

[1] Green peas and sweet corn not published to avoid disclosure of individual operations.
[2] No estimates made.

Fresh Market Vegetable Acreage, Production and Value

CROP	Year	Acres		Production		Price Received	Value of Production[1]
		Planted	Harvested	Per Acre	Total		
				Cwt.	*1,000 Cwt.*	*Dollars per Cwt.*	*1,000 Dollars*
Corn, Sweet	**1985**	**13,300**	**12,000**	**65**	**780**	**12.40**	**9,672**
	1984	13,300	12,300	65	800	10.80	8,640
	1983	13,300	12,800	70	896	11.10	9,946
	1982	13,300	13,000	66	858	8.81	7,559
	1981	12,500	12,000	61	732	9.84	7,203
Lettuce	**1985**	**1,300**	**1,200**	**250**	**300**	**17.50**	**5,250**
	1984	1,200	1,100	235	259	15.70	4,066
	1983	1,600	1,200	190	228	15.00	3,420
	1982	1,600	1,500	250	375	13.80	5,175
	1981	1,400	1,200	215	258	18.00	4,644
Onions	**1985**	**8,400**	**7,800**	**325**	**2,535**	**6.96**	**14,164**
	1984	8,600	8,500	345	2,933	6.80	16,898
	1983	8,400	8,300	310	2,573	14.30	30,373
	1982	8,200	8,000	320	2,560	6.11	12,941
	1981	7,900	7,700	335	2,580	10.70	22,973
Tomatoes	**1985**	**3,500**	**3,200**	**100**	**320**	**17.20**	**5,504**
	1984	3,600	3,500	120	420	28.80	12,096
	1983	3,600	3,300	120	396	28.10	11,128
	1982	3,800	3,500	115	403	19.60	7,899
	1981	3,600	3,400	115	391	24.50	9,580

[1] For onions — Value of Sales.

Vegetable Planting and Harvesting Dates

Vegetable	Usual Planting Dates	Usual Harvesting Dates		
		Begins	Most Active	Ends
Asparagus	Apr. 1 – Apr. 30	Apr. 25	May 1 – June 20	June 30
Snap Beans	May 1 – June 20	June 1	July 15 – Sept. 30	Oct. 10
Carrots	Apr. 15 – July 10	July 10	Aug. 5 – Nov. 15	Nov. 25
Cauliflower	June 10 – July 20	Aug. 10	Sept. 10 – Oct. 20	Nov. 15
Celery	Apr. 15 – July 31	June 25	July 10 – Nov. 1	Nov. 15
Sweet Corn	May 1 – July 15	July 15	Aug. 1 – Sept. 30	Oct. 10
Cucumbers	May 5 – July 15	July 15	Aug. 1 – Sept. 30	Oct. 30
Lettuce	Apr. 1 – July 15	June 25	July 1 – Sept. 20	Oct. 10
Onions	Apr. 1 – May 15	July 20	Aug. 25 – Sept. 30	Oct. 31
Green Peas	Apr. 10 – May 15	June 20	June 25 – July 15	July 25
Strawberries	Apr. 1 – May 15	June 1	June 10 – July 5	July 25
Tomatoes	May 1 – June 15	July 20	Aug. 1 – Sept. 30	Oct. 31

Source: *USUAL PLANTING AND HARVESTING DATES FOR FRESH MARKET AND PROCESSING VEGETABLES*, Agriculture Handbook No. 507, U.S. Department of Agriculture.

FLORICULTURE

Michigan commercial floriculture growers reported wholesale sales of $74.8 million for 1985. Commercial growers are those having $10,000 or more of gross sales. Michigan leads the nation in producing flowering and vegetable bedding plants. Bedding plants were the leading revenue producer in 1985 accounting for 46 percent of Michigan's total value of wholesale sales. Michigan was also first in potted Easter lilies and geraniums.

The coverage of Michigan floriculture crop estimates was greatly expanded for the 1985 crop. Items added were: growing area, cut carnations, other cut flowers, potted African violets, other potted flowering plants, flowering hanging baskets, foliage hanging baskets, potted hardy/garden mums, other potted flowering and foliage bedding plants, potted vegetable plants, leather leaf ferns and other cut cultivated greens.

Area of Production and Average Value

PLANT	Production Area			Average Value of Production Area[1]		
	1985	1984	1981	1985	1984	1981
	1,000 Sq. Ft.			*Dollars per Sq. Ft.*		
FOLIAGE PLANTS:						
All[2]	**470**	1,380	1,245	**6.14**	3.80	4.00
BEDDING PLANTS:						
Flowering & Foliar[3]	**9,750**	10,110	7,603	**2.82**	2.74	2.68
Vegetable	**1,995**	2,600	2,600	**2.64**	2.52	2.38
Geraniums	**435**	—	—	**4.57**	—	—
POTTED PLANTS:						
Chrysanthemums	**1,195**	1,520	1,185	**3.39**	3.34	3.38
Hydrangea	**90**	75	90	**2.96**	2.60	2.83
Poinsettias	**3,525**	3,430	2,108	**1.99**	1.94	1.94
African Violets	**125**	—	—	**6.38**	—	—
Easter Lilies[4]	**600**	495	480	**4.43**	4.79	3.49
Other Lilies	**21**	—	—	**5.52**	—	—
Hardy/Garden Mums	**580**	—	—	**1.64**	—	—
Geraniums (Cuttings)[5]	**1,400**	2,450	2,050	**3.06**	2.79	2.61
Geraniums (Seed)	**1,345**	—	—	**3.36**	—	—
Other Flowering Plants	**375**	—	--	**5.14**	—	—
Other Flowering & Foliar Type Bedding Plants	**420**	—	—	**2.86**	—	—
Vegetable Type Bedding Plants	**60**	—	—	**4.25**	—	—
CUT FLOWERS:						
Chrysanthemums, Standard	**80**	125	145	**2.40**	2.52	1.96
Pompon	**190**	190	220	**3.28**	2.51	2.42
Roses, Hybrid Tea	**420**	460	540	**6.12**	5.54	6.80
Sweetheart	**185**	215	166	**6.57**	5.24	8.33
Snapdragons	**150**	100	155	**1.65**	2.00	1.34
Other Cut Flowers	**240**	—	—	**.75**	—	—
	Acres			*Dollars per Acre*		
Gladioli	**720**	640	440	**3,360**	3,305	3,323

[1] Based on Value of Sales at Wholesale, except foliage which is based on Net Value of Sales.
[2] 1984 and 1981 data includes foliage hanging baskets.
[3] 1984 and 1982 data includes all flowering and foliar type bedding plants.
[4] 1984 and 1981 data includes all potted lilies.
[5] 1984 and 1981 data includes all potted geraniums.

Bedding Plant and Flower Production and Sales

CROP	YEAR	Producers with Sales Over $10,000	Sales		Percent of Sales at Wholesale	Wholesale		Value of Sales at Wholesale[1]
			Unit	Quantity		Unit	Price	
		Number		*1,000*	*Percent*			*1,000 Dollars*
BEDDING PLANTS:								
Flowering & Foliar[2]	**1985**	**299**	**Flat**	**5,660**	**85**	**Dollars**	**4.85**	**27,451**
	1984	335	Flat	5,835	84	Dollars	4.75	27,716
	1981	310	Flat	4,842	88	Dollars	4.21	20,385
Vegetable	**1985**	**280**	**Flat**	**1,120**	**80**	**Dollars**	**4.70**	**5,264**
	1984	303	Flat	1,425	81	Dollars	4.60	6,555
	1981	280	Flat	1,586	86	Dollars	3.90	6,185
Geraniums	**1985**	**79**	**Flat**	**280**	**88**	**Dollars**	**7.10**	**1,988**
POTTED PLANTS:								
Chrysanthemums	**1985**	**77**	**Pot**	**1,350**	**93**	**Dollars**	**3.00**	**4,050**
	1984	128	Pot	1,880	91	Dollars	2.70	5,076
	1981	125	Pot	1,541	85	Dollars	2.60	4,007
Hydrangea	**1985**	**31**	**Pot**	**70**	**94**	**Dollars**	**3.80**	**266**
	1984	36	Pot	55	90	Dollars	3.55	195
	1981	36	Pot	79	80	Dollars	3.40	255
Poinsettias	**1985**	**163**	**Pot**	**2,545**	**87**	**Dollars**	**2.75**	**6,999**
	1984	171	Pot	2,335	84	Dollars	2.85	6,655
	1981	150	Pot	1,457	84	Dollars	2.81	4,094
African Violets	**1985**	**25**	**Pot**	**840**	**95**	**Dollars**	**.95**	**798**
Easter Lilies[3]	**1985**	**99**	**Pot**	**885**	**94**	**Dollars**	**3.00**	**2,655**
	1984	111	Pot	790	94	Dollars	3.00	2,370
	1981	105	Pot	600	93	Dollars	2.79	1,674
Other Lilies	**1985**	**19**	**Pot**	**40**	**88**	**Dollars**	**2.90**	**116**
Hardy/Garden Mums	**1985**	**93**	**Pot**	**680**	**82**	**Dollars**	**1.40**	**952**
Geraniums (Cuttings)[4]	**1985**	**216**	**Pot**	**4,085**	**64**	**Dollars**	**1.05**	**4,289**
	1984	315	Pot	9,750	79	Dollars	.70	6,825
	1981	255	Pot	6,765	77	Dollars	.79	5,344
Geraniums (Seed)	**1985**	**131**	**Pot**	**6,950**	**92**	**Dollars**	**.65**	**4,518**
Other Flowering Plants	**1985**	**60**	**Pot**	**820**	**88**	**Dollars**	**2.35**	**1,927**
Other Flowering & Foliar Type Bedding Plants	**1985**	**100**	**Pot**	**1,600**	**83**	**Dollars**	**.75**	**1,200**
Vegetable Type Bedding Plants	**1985**	**52**	**Pot**	**255**	**51**	**Dollars**	**1.00**	**255**
HANGING BASKETS:								
Flowering	**1985**	**160**	**Baskets**	**300**	**45**	**Dollars**	**5.50**	**1,650**
Foliage	**1985**	**87**	**Baskets**	**135**	**41**	**Dollars**	**4.75**	**641**

Bedding Plant and Flower Production and Sales (Continued)

CROP	YEAR	Producers with Sales Over $10,000	Sales		Percent of Sales at Wholesale	Wholesale		Value of Sales at Wholesale[1]
			Unit	Quantity		Unit	Price	
		Number		*1,000*	*Percent*			*1,000 Dollars*
CUT FLOWERS:								
Chrysanthemums, Standard	**1985**	**32**	**Bloom**	**295**	**36**	**Cents**	**65.0**	**192**
	1984	42	Bloom	525	48	Cents	60.0	315
	1981	45	Bloom	470	75	Cents	60.4	284
Pompon	**1985**	**48**	**Bunch**	**235**	**43**	**Dollars**	**2.65**	**623**
	1984	54	Bunch	180	45	Dollars	2.65	477
	1981	60	Bunch	237	55	Dollars	2.25	533
Roses, Hybrid Tea	**1985**	**10**	**Bloom**	**4,670**	**99**	**Cents**	**55.0**	**2,569**
	1984	16	Bloom	5,100	97	Cents	50.0	2,550
	1981	14	Bloom	7,182	99	Cents	51.1	3,670
Sweetheart	**1985**	**7**	**Bloom**	**2,700**	**99**	**Cents**	**45.0**	**1,215**
	1984	8	Bloom	3,220	99	Cents	35.0	1,127
	1981	5	Bloom	3,500	100	Cents	39.5	1,383
Snapdragons	**1985**	**32**	**Stem**	**550**	**61**	**Cents**	**45.0**	**248**
	1984	34	Stem	570	71	Cents	35.0	200
	1981	45	Stem	667	60	Cents	31.2	208
Gladioli	**1985**	**15**	**Spike**	**20,160**	**100**	**Cents**	**12.0**	**2,419**
	1984	17	Spike	19,230	99	Cents	11.0	2,115
	1981	16	Spike	9,680	95	Cents	15.1	1,462
Other Cut Flowers	**1985**	**31**	—	—	**61**	—	—	**180**

[1] Equivalent wholesale value of all sales.
[2] 1984 and 1981 data includes all flowering and foliar type bedding plants.
[3] 1984 and 1981 data includes all potted lilies.
[4] 1984 and 1981 data includes all potted geraniums.

Foliage Plant Production and Sales[1]

YEAR	Producers with Sales Over $10,000	Square Feet in Production	Net Value of Sales[2]	Sales at Wholesale
	Number	*1,000 Sq. Ft.*	*1,000 Dollars*	*Percent*
1985	**69**	**470**	**2,280**	**81**
1984	167	1,380	5,245	70
1981	145	1,245	4,980	69

[1] 1984 and 1981 data includes foliage hanging baskets.
[2] Gross value of sales less cost of plant material purchased from others.

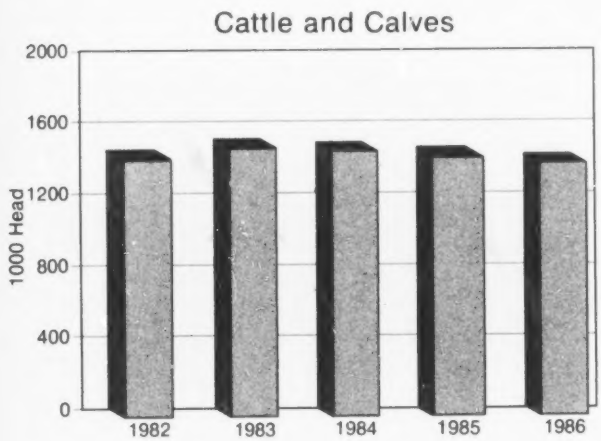
LIVESTOCK AND POULTRY

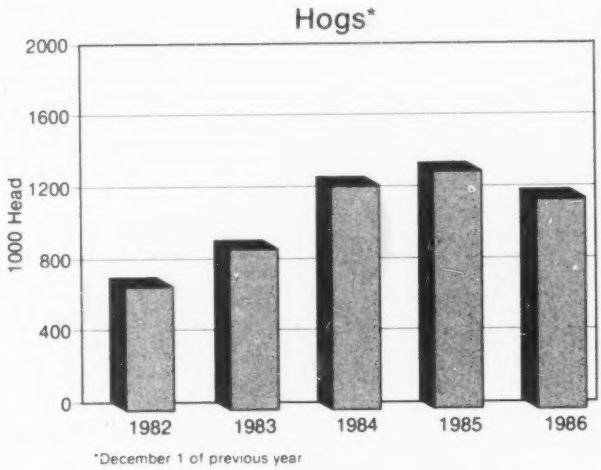
General Information

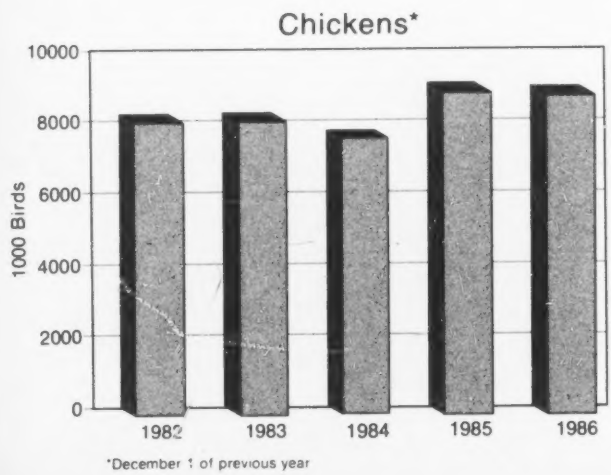
Michigan has long been recognized as a leading State in milk production and dairy products. In recent years, Michigan has increased its share of national production in other livestock enterprises. Pork, egg and turkey output have shown significant increases. Most livestock producers enjoyed reduced feed costs during 1985, but this was one of the few bright spots, as market prices for most livestock and products declined. Large supplies of red meat and poultry and lower than expected demand for red meat contributed to lower prices. Total livestock cash receipts dropped 5 percent from 1984.

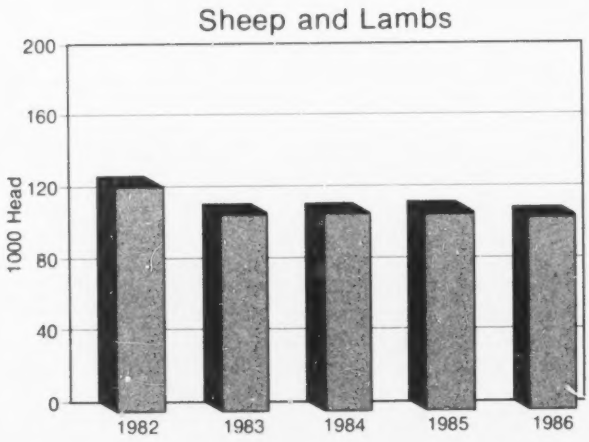
The expansion in Michigan hog production ended during 1985, as many producers reduced their herds in response to lower prices. The December hog inventory was down 9 percent and cash receipts fell 12 percent. Imports of Canadian slaughter hogs into the U.S. exceeded 1.2 million head during 1985, down only slightly from the previous year. Imports dropped sharply after July 1985, however, as the U.S. Commerce Department imposed duties on live hogs from Canada. Cattle inventories declined for the third straight year during 1985 and marketings and cash receipts slipped lower. Market prices for slaughter cows, steers and heifers and calves declined. Calf marketings increased due in part to increased demand for veal. Stock sheep numbers fell to a record low, but sharply higher prices for slaughter lambs boosted sheep receipts by 7 percent.

Egg production and layer numbers increased during 1985, with production falling just short of the record set in 1944. Sharply lower egg prices resulted in a 22 percent drop in receipts. Steady prices and higher production boosted turkey receipts 12 percent. Two livestock enterprises that have shown strong recent growth in Michigan are Angora goats and dairy goats. Funding to compile bee and honey estimates has been restored for 1986.









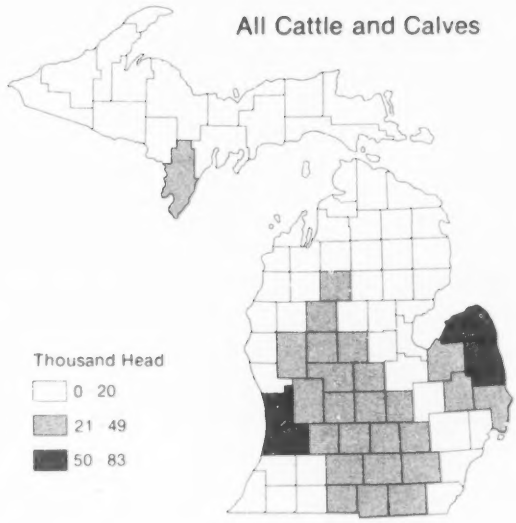
Number and Value of Livestock and Poultry, January 1

SPECIES AND YEAR	Michigan			United States		
	Number	Value Per Head or Bird	Total Value	Number	Value Per Head or Bird	Total Value
	1,000	*Dollars*	*1,000 Dollars*	*1,000*	*Dollars*	*1,000 Dollars*
ALL CATTLE AND CALVES						
1986	**1,410**	**475.00**	**669,750**	**105,468**	**391.00**	**41,280,203**
1985	1,450	500.00	725,000	109,749	402.00	44,138,618
1984	1,475	500.00	737,500	113,700	396.00	44,975,575
1983	1,500	540.00	810,000	115,001	406.00	46,708,350
1982	1,450	580.00	841,000	115,444	415.00	47,905,367
ALL HOGS AND PIGS[1]						
1986	**1,190**	**69.00**	**82,110**	**52,298**	**69.60**	**3,639,348**
1985	1,310	82.50	108,075	54,073	75.00	4,055,724
1984	1,250	62.50	78,125	56,694	58.80	3,330,803
1983	900	87.50	78,750	54,534	89.90	4,903,494
1982	690	73.00	50,370	58,698	70.10	4,114,350
ALL SHEEP AND LAMBS						
1986	**108**	**74.00**	**7,992**	**9,932**	**67.40**	**669,883**
1985	110	68.50	7,535	10,443	61.10	637,873
1984	110	63.00	6,930	11,487	52.10	598,904
1983	110	58.50	6,435	12,140	51.80	628,599
1982	125	63.50	7,938	12,997	57.10	742,139
ALL CHICKENS[1]						
1986	**8,900**	**1.45**	**12,905**	**368,248**	**1.90**	**699,715**
1985	9,000	1.60	14,400	374,008	2.02	754,312
1984	7,750	1.60	12,400	364,880	1.96	716,700
1983	8,100	1.45	11,745	379,219	1.85	702,556
1982	8,100	1.50	12,150	385,338	1.89	728,460
TURKEYS — Breeder Hens[1]						
1986[2]	—	—	—	—	—	—
1985	38	17.00	646	3,159	16.54	52,244
1984	38	15.00	570	3,155	17.59	55,500
1983	45	14.00	630	3,429	14.60	50,053
1982	50	12.00	600	3,514	15.35	53,962
TOTAL VALUE — ALL SPECIES						
1986[3]	—	—	**772,757**	—	—	**46,289,149**
1985	—	—	855,656	—	—	49,638,771
1984	—	—	835,525	—	—	49,677,482
1983	—	—	907,560	—	—	52,993,052
1982	—	—	912,058	—	—	53,544,278

[1] December 1 of previous year.
[2] Estimates discontinued in 1986.
[3] Excludes turkey breeder hens.

Cattle and Calves

Michigan cattle producers continued to reduce the size of their herds during 1985. The January 1, 1986 cattle inventory of 1,410,000 head was down 3 percent from a year earlier. Cattle numbers have declined for three consecutive years and are down 6 percent from the recent peak inventory established in 1983. Cattle classes which showed the largest declines were beef cows, beef replacement heifers, and calves weighing less than 500 pounds. Milk replacement heifers remained plentiful as the inventory declined only 2 percent. The only classes to show increases were milk cows and steers. Cash receipts from cattle marketings declined 7 percent during 1985. Marketings were down 4 percent and average cattle and calf market prices declined. Commercial cattle slaughter declined 20 percent during 1985. Veal calf slaughter was up 30 percent. This was the largest annual calf slaughter in Michigan since 1977.



Number on Farms by Class, January 1

CLASS	1986	1985	1984	1983	1982
			1,000 Head		
Cows and Heifers that have Calved	**550**	550	560	595	590
Beef Cows	**153**	160	158	195	194
Milk Cows	**397**	390	402	400	396
Heifers, 500 pounds and over	**260**	274	282	290	269
For Beef Cow replacement	**23**	32	36	52	40
For Milk Cow replacement	**192**	195	180	186	184
Other Heifers	**45**	47	66	52	45
Steers, 500 pounds and over	**215**	210	230	193	195
Bulls, 500 pounds and over	**20**	22	23	24	20
Calves, less than 500 pounds	**365**	394	380	398	376
All Cattle and Calves	**1,410**	1,450	1,475	1,500	1,450
Number of Cattle Operations[1]	**30,000**	31,000	32,000	33,000	32,000

[1] Any place having one or more head on hand at any time during the year.

Balance Sheet

YEAR	On Hand January 1, All Cattle and Calves	Calf Crop	Inship-ments	Marketings[1]		Farm Slaughter[2]	Deaths		On Hand Following January 1, All Cattle and Calves
				Cattle	Calves	Cattle and Calves	Cattle	Calves	
					1,000 Head				
1985	**1,450**	**540**	**60**	**455**	**74**	**6**	**25**	**80**	**1,410**
1984	1,475	525	100	480	56	9	25	80	1,450
1983	1,500	525	130	480	68	10	27	95	1,475
1982	1,450	550	135	444	56	11	34	90	1,500
1981	1,340	500	110	332	40	8	30	90	1,450

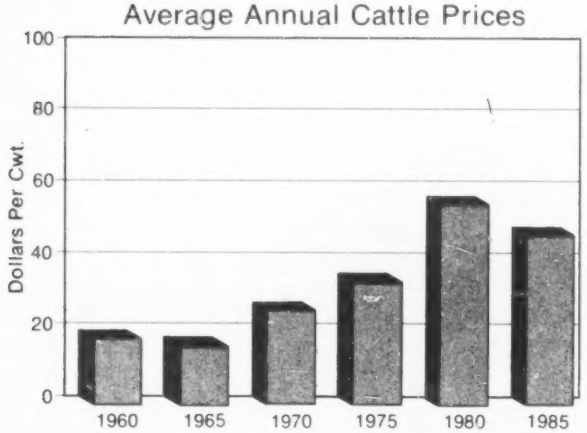
[1] Includes custom slaughter and state outshipments, but excludes interfarm sales within Michigan.
[2] Excludes custom slaughter for farmers at commercial establishments.

Cattle and Calves Production and Income

YEAR	Production[1]	Marketings[2]	Average Price per Cwt.		Value of Production	Cash Receipts[3]	Value of Home Consumption	Gross Income
			Cattle	Calves				
	1,000 Pounds		*Dollars*			*1,000 Dollars*		
1985	**463,485**	**493,950**	**46.30**	**53.30**	**215,373**	**230,022**	**12,890**	**242,912**
1984	454,130	513,440	48.20	54.10	219,996	248,224	13,002	261,226
1983	461,000	532,680	47.20	57.00	218,661	252,844	16,660	269,504
1982	461,780	486,330	48.00	57.20	223,558	234,484	18,835	253,319
1981	415,130	367,260	49.50	65.20	208,720	183,207	16,338	199,545

[1] Adjustments made for changes in inventory and for inshipments.
[2] Excludes custom slaughter for use on farms where produced and interfarm sales within the state.
[3] Receipts from marketings and sale of farm slaughter.

Average Annual Cattle Prices



Cattle on Feed for Slaughter

YEAR	January 1
	1,000 Head
1986	**175**
1985	165
1984	175
1983	150
1982	135

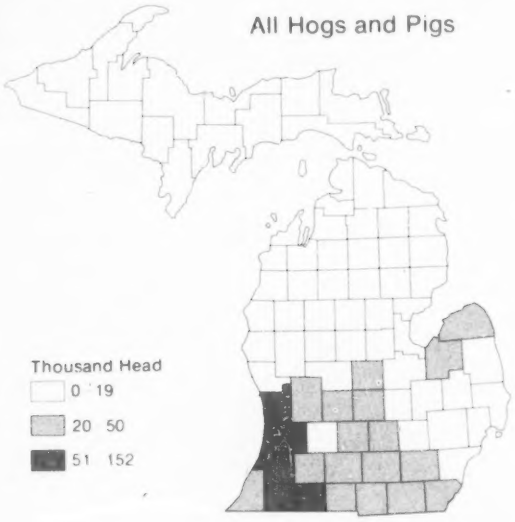
Commercial Slaughter

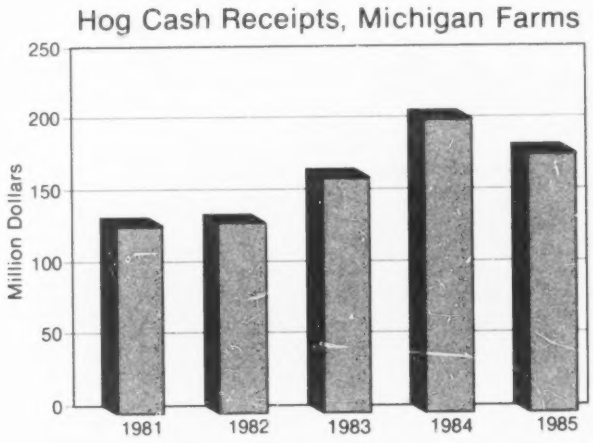
YEAR OR MONTH	Cattle			Calves		
	Head	Liveweight		Head	Liveweight	
		Per Head	Total		Per Head	Total
	1,000	*Pounds*	*1,000 Pounds*	*1,000*	*Pounds*	*1,000 Pounds*
1985 January	**52.9**	**1,125**	**59,512**	**8.6**	**261**	**2,230**
February	**40.5**	**1,119**	**45,281**	**7.9**	**261**	**2,066**
March	**34.0**	**1,101**	**37,485**	**7.6**	**254**	**1,935**
April	**35.4**	**1,109**	**39,262**	**7.5**	**254**	**1,896**
May	**38.3**	**1,101**	**42,133**	**9.1**	**284**	**2,571**
June	**34.4**	**1,079**	**37,103**	**8.6**	**287**	**2,453**
July	**38.1**	**1,082**	**41,197**	**9.9**	**291**	**2,869**
August	**42.2**	**1,093**	**46,105**	**7.7**	**269**	**2,060**
September	**38.8**	**1,102**	**42,745**	**9.4**	**275**	**2,594**
October	**43.4**	**1,088**	**47,188**	**10.6**	**285**	**3,018**
November	**37.8**	**1,082**	**40,863**	**8.4**	**286**	**2,471**
December	**37.8**	**1,081**	**40,863**	**9.6**	**267**	**2,563**
1985[1]	**473**	**1,098**	**519,738**	**105**	**274**	**28,666**
1984	595	1,094	650,304	81	243	19,631
1983	537	1,145	614,551	75	235	17,513
1982	555	1,168	648,062	74	234	17,316
1981	503	1,198	602,668	80	254	20,425

[1] Months may not add exactly to annual totals because of rounding.

Hogs

The recent expansion in Michigan hog numbers came to a halt during 1985. The December 1 inventory of 1,190,000 hogs was down 9 percent from the previous year. This was the first decline in Michigan hogs since 1981. Michigan dropped a notch to 12th nationally in hog numbers. Many producers reduced their hog operations due to low market prices during most of 1985. Market prices declined for the third straight year and reached their lowest level since 1981. Market hog numbers fell 10 percent and breeding inventory was down 6 percent. June-November farrowings averaged a record 8 pigs per litter. Annual hog marketings exceeded 1.7 million head, down 6 percent from 1984. Cash receipts, at $178 million, dropped 12 percent from a year earlier. During 1985 nearly 5.1 million hogs were butchered in Michigan slaughter plants, placing the State third nationally in hog slaughter.





Number on Farms by Class and Number of Operations

CLASS	1985 Dec. 1	1984 Dec. 1	1983 Dec. 1	1982[1] Dec. 1	1981 Dec. 1	1981 June 1
	1,000 Head					
Breeding Hogs	**145**	155	170	150	105	129
Market Hogs	**1,045**	1,155	1,080	750	585	651
All Hogs	**1,190**	1,310	1,250	900	690	780
Number of Hog Operations[2]	**8,000**	8,500	9,000	8,500	9,200	

[1] June 1 estimates discontinued.
[2] Any place having one or more head on hand at any time during the year.

Pig Crop

YEAR	December-May Sows Farrowed	December-May Pigs per Litter	December-May Pig Crop	June-November Sows Farrowed	June-November Pigs per Litter	June-November Pig Crop
	1,000 Head	*Head*	*1,000 Head*		*Head*	*1,000 Head*
1985	**90**	**7.8**	**702**	**124**	**8.0**	**992**
1984	110	7.5	825	150	7.7	1,155
1983	100	7.5	750	148	7.6	1,125
1982	85	7.5	638	100	7.4	740
1981	86	7.7	662	75	7.5	563

Balance Sheet

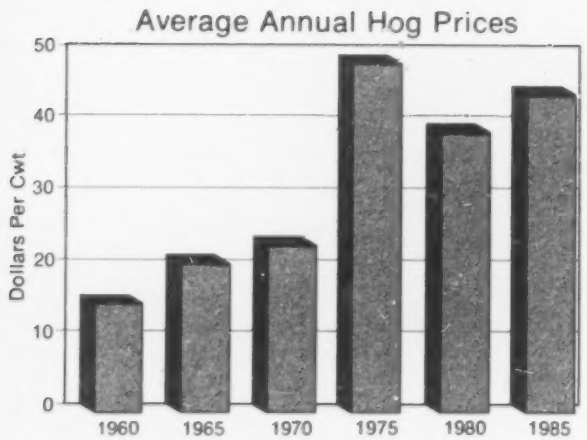
YEAR	Beginning Inventory	Pig Crop		Inshipments	Marketings[1]	Farm Slaughter[2]	Deaths	Number on Hand December 1
		Dec.-May	June-Nov.					
	1,000 Head							
1985	**1,310**	**702**	**992**	**46**	**1,745**	**10**	**105**	**1,190**
1984	1,250	825	1,155	85	1,860	10	135	1,310
1983	900	750	1,125	75	1,490	10	100	1,250
1982	690	638	740	53	1,081	15	125	900
1981	830	662	563	64	1,291	18	120	690

[1] Includes custom slaughter and state outshipments, but excludes interfarm sales within Michigan.
[2] Excludes custom slaughter for farmers at commercial establishments.

Hogs and Pigs Production and Income

YEAR	Production[1]	Marketings[2]	Average Price per Cwt.	Value of Production	Cash Receipts[3]	Value of Home Consumption	Gross Income
	1,000 Pounds		*Dollars*		*1,000 Dollars*		
1985	**386,535**	**403,985**	**43.90**	**169,979**	**178,243**	**2,107**	**180,350**
1984	444,608	432,840	46.80	207,746	203,601	2,808	206,409
1983	386,003	345,510	47.00	181,077	163,245	2,820	166,065
1982	287,905	250,757	52.50	150,753	132,554	3,780	136,334
1981	288,235	293,625	43.70	125,441	129,020	5,664	134,684

[1] Adjustments made for changes in inventory and for in shipments.
[2] Excludes custom slaughter for use on farms where produced and interfarm sales within the state.
[3] Receipts from marketings and sale of farm slaughter. Includes allowance for higher average price of outshipments of feeder pigs.



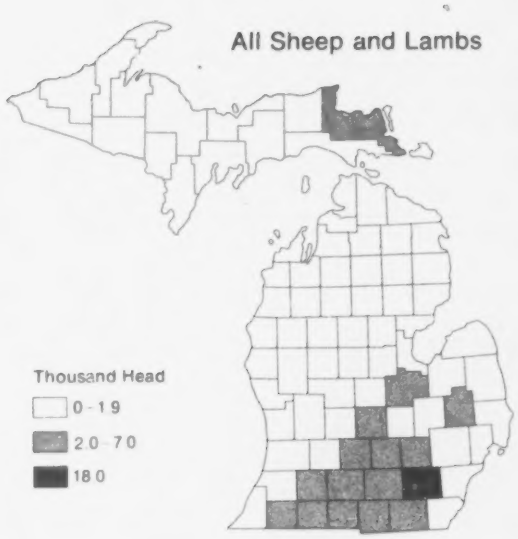
Commercial Hog Slaughter

YEAR OR MONTH	Head	Liveweight	
		Per Head	Total
	1,000	*Pounds*	*1,000 Lbs.*
1985 January	**464.0**	**241**	**111,905**
February	**392.4**	**240**	**94,115**
March	**458.0**	**239**	**109,553**
April	**442.7**	**240**	**106,233**
May	**467.6**	**239**	**111,778**
June	**405.2**	**240**	**97,189**
July	**392.4**	**242**	**95,012**
August	**407.5**	**240**	**97,854**
September	**302.3**	**237**	**71,578**
October	**469.0**	**236**	**110,727**
November	**448.5**	**238**	**106,615**
December	**410.9**	**237**	**97,428**
1985[1]	**5,061**	**239**	**1,209,987**
1984	5,323	241	1,280,809
1983	5,285	241	1,274,962
1982	5,219	242	1,260,560
1981	5,521	239	1,321,221

Sheep and Lambs

Sheep numbers declined in Michigan during 1985. The January 1, 1986, inventory totaled 108,000 head, down 2,000 from the previous year and a record low Michigan sheep population. The record high of 3.1 million head occurred in 1867, the first year estimates were compiled. The inventory of fed sheep and lambs was up slightly. Most of the sheep in the State are in South Central and Southeast Michigan. Washtenaw County easily ranks first in sheep inventory.

The 1985 lamb crop was 90,000 head, down 10,000 from the previous year. Sheep and lamb death losses were the lowest in recent years. Sheep and lamb marketings were virtually unchanged from 1984 levels. Higher market prices resulted in a 7 percent gain in cash receipts. Market lamb prices averaged a record $67.00 per cwt., up from a year earlier. Wool production set a record low in 1985 as fewer sheep were shorn and average fleece weight declined. Sharply lower prices and lower production resulted in a 23 percent drop in the value of wool. Commercial sheep and lamb slaughter declined for the first time since 1981.



Number on Farms by Class, January 1

CLASS	1986	1985	1984	1983	1982
STOCK SHEEP:			*1,000 Head*		
Ewe Lambs	**11**	12	13	13	16
Ram and Wether Lambs	**4**	3	4	3	4
Ewes, 1 year plus	**71**	73	72	76	78
Rams and Wethers, 1 year plus	**3**	4	3	3	3
Sheep and Lambs on Feed	**19**	18	18	15	24
All Sheep and Lambs	**108**	110	110	110	125
Number of Sheep Operations[1]	**2,700**	2,900	2,900	2,800	2,700

[1] Any place having one or more head on hand at any time during the year.

Balance Sheet

YEAR	On Hand January 1, All Sheep and Lambs	Lamb Crop	Inship-ments	Marketings[1]		Farm Slaughter[2]	Deaths		On Hand Following January 1, All Sheep and Lambs
				Sheep	Lambs		Sheep	Lambs	
					1,000 Head				
1985	**110**	**90**	**1**	**14**	**65**	**1**	**4**	**9**	**108**
1984	110	100	0	10	71	2	5	12	110
1983	110	90	0	15	59	1	5	10	110
1982	125	90	2	16	70	2	6	13	110
1981	124	95	1	15	61	2	6	11	125

[1] Includes custom slaughter and state outshipments, but excludes interfarm sales within Michigan.
[2] Excludes custom slaughter for farmers at commercial establishments.

Sheep and Lambs Production and Income

YEAR	Production[1]	Marketings[2]	Average Price Per Cwt.		Value of Production	Cash Receipts[3]	Value of Home Consumption	Gross Income
			Sheep	Lambs				
	1,000 Pounds		*Dollars*			*1,000 Dollars*		
1985	**8,674**	**8,799**	**16.50**	**67.00**	**5,068**	**4,920**	**221**	**5,141**
1984	9,369	8,812	14.00	59.00	4,772	4,587	255	4,842
1983	8,045	7,830	14.00	53.00	3,722	3,389	223	3,612
1982	7,580	8,686	18.50	54.50	3,516	4,017	269	4,286
1981	8,060	7,803	19.80	51.90	3,678	3,454	178	3,632

[1] Adjustments made for changes in inventory and for inshipments.
[2] Excludes custom slaughter for use on farms where produced and interfarm sales within the state.
[3] Receipts from marketings and sale of farm slaughter.

Lamb Crop

YEAR	Breeding Ewes 1 Yr. + January 1	Lamb Crop per 100 Ewes 1 Year +	Lamb Crop
	1,000 Head	*Percent*	*1,000 Head*
1985	**73**	**123**	**90**
1984	72	139	100
1983	76	118	90
1982	78	115	90
1981	80	119	95

Commercial Sheep and Lamb Slaughter

YEAR OR MONTH	Head	Liveweight	
		Per Head	Total
	1,000	*Pounds*	*1,000 Lbs.*
1985 January	**26.3**	**113**	**2,966**
February	**21.8**	**115**	**2,504**
March	**22.1**	**118**	**2,600**
April	**21.1**	**113**	**2,392**
May	**22.4**	**114**	**2,555**
June	**23.8**	**113**	**2,693**
July	**27.7**	**113**	**3,136**
August	**29.3**	**113**	**3,312**
September	**25.9**	**111**	**2,863**
October	**29.1**	**114**	**3,329**
November	**24.5**	**116**	**2,845**
December	**21.8**	**115**	**2,514**
1985[1]	**296**	**114**	**33,709**
1984	342	112	38,347
1983	333	112	37,180
1982	315	109	34,395
1981	290	109	31,574

[1] Months may not add exactly to annual totals because of rounding.

Wool Production and Value

YEAR	Number Sheep Shorn	Weight per Fleece	Production	Price per Pound	Value of Production
	1,000 Head	*Pounds*	*1,000 Pounds*	*Cents*	*1,000 Dollars*
1985	**104**	**7.5**	**775**	**44**	**341**
1984	106	7.8	823	54	444
1983	117	7.7	902	40	361
1982	111	7.8	865	44	381
1981	125	7.6	945	70	662

Poultry

There were 7.1 million hens and pullets of laying age in Michigan on December 1, 1985, up 6 percent from a year earlier. Egg production for the same period was up 11 percent from the previous year. Production fell just short of the record high set in 1944. Egg production is Michigan's leading poultry enterprise as the State placed 13th nationally during 1985. Value of eggs was $59.3 million, down 22 percent from a year ago. Sharply lower egg prices offset the higher production. Egg prices averaged 42 cents per dozen, down 18 cents from the previous year. Production is concentrated in the Thumb and the West Central Lower Peninsula. Despite the increase in layer numbers, the total chicken inventory declined, as replacement pullets dropped 22 percent.

Turkey production continued its steady increase during 1985. Growers raised 2.3 million birds, up 10 percent from the previous year. Market prices averaged 52 cents per pound, down slightly from the record prices set in 1984. Total value of production was up 12 percent from last year. Broiler production increased during 1985, offsetting a slight drop in market prices. Value of broilers at $1.7 million, was up 8 percent. Turkey and broiler production is concentrated in the Western Lower Peninsula.

Number on Farms by Class, December 1

CLASS	1985	1984	1983	1982	1981
			1,000 Birds		
CHICKENS:					
Pullets of laying age	**4,200**	4,050	3,670	3,730	3,800
Hens	**2,900**	2,650	2,530	2,570	2,500
Pullets, 3 months plus	**1,000**	1,300	725	850	820
Pullets, less than 3 months	**760**	950	775	900	940
Other Chickens	**40**	50	50	50	40
All Chickens (excluding broilers)	**8,900**	9,000	7,750	8,100	8,100
			1,000 Birds		
TURKEYS:					
Breeder Hens	[1]	38	38	45	50

[1] Estimates discontinued.

Chickens: Average Number of Layers

MONTH	1985	1984	1983
		1,000 Birds	
December	**6,800**	6,100	6,250
January	**7,000**	6,200	6,150
February	**7,000**	6,200	6,000
March	**6,800**	6,150	5,850
April	**6,600**	6,050	5,800
May	**6,600**	6,000	5,800
June	**6,700**	6,050	5,850
July	**6,700**	6,000	5,900
August	**6,700**	6,000	5,950
September	**6,800**	6,200	6,000
October	**6,950**	6,400	6,000
November	**7,050**	6,600	6,100
Annual Average[1]	**6,807**	6,162	5,971

[1] December 1 previous year to November 30.

Egg Production

MONTH	1985	1984	1983
		Million	
December	**141**	129	132
January	**145**	132	132
February	**137**	123	119
March	**151**	131	127
April	**139**	122	118
May	**139**	123	121
June	**136**	122	121
July	**139**	126	125
August	**141**	125	121
September	**138**	122	118
October	**142**	131	125
November	**145**	133	125
Total[1]	**1,693**	1,519	1,484

[1] December 1 previous year to November 30.

Chicken and Broiler Production and Income

YEAR	Chickens (excluding broilers)				Broilers			
	Number Raised	Pounds Produced	Price per Pound	Gross Income[1]	Number Produced	Pounds Produced	Price per Pound	Value of Production[2]
	1,000 Birds	*1,000 Pounds*	*Cents*	*1,000 Dollars*	*1,000 Birds*	*1,000 Pounds*	*Cents*	*1,000 Dollars*
1985	**5,500[3]**	**24,750[4]**	**15.0**	**3,713[5]**	**1,300**	**5,460**	**31.0**	**1,693**
1984	5,500	21,202	11.5	1,850	1,130	4,746	33.0	1,566
1983	5,100	20,147	10.5	2,297	1,130	4,633	30.0	1,390
1982	5,100	20,526	8.5	1,739	1,180	4,720	27.0	1,274
1981	5,650	22,787	8.5	1,993	1,130	4,520	32.0	1,446

[1] Value of home consumption included for years 1981-1984.
[2] Gross income including home consumption.
[3] Number sold.
[4] Pounds sold.
[5] Value of sales.

Turkey Production and Income

YEAR	Breeder Hens			Market Turkeys			
	Number On Farms December 1	Farm Value		Number Raised[1]	Pounds Produced[2]	Price per Pound[3]	Gross Income
		Per Bird	Total				
	1,000 Birds	*Dollars*	*1,000 Dollars*	*1,000 Birds*	*1,000 Pounds*	*Cents*	*1,000 Dollars*
1985	[4]	[4]	[4]	**2,300**	**59,800**	**52.0**	**31,096**
1984	38	17.00	646	2,100	52,500	53.0	27,825
1983	38	15.00	570	1,900	47,500	42.0	19,950
1982	45	14.00	630	1,800	46,800	41.0	19,188
1981	50	12.00	600	1,600	41,600	41.0	17,056

[1] Based on turkeys placed September previous year through August, including inshipments. Excludes death loss.
[2] Includes home consumption.
[3] Liveweight equivalent price.
[4] Estimates discontinued, effective December 31, 1984.

Mink

Mink pelt production in Michigan decreased 1,000 in 1985 to 166,500 pelts. Even with this decrease Michigan ranked 7th nationally in mink. The State produces about 4 percent of the Nation's mink pelts. Over half of the State's mink are raised in the Upper Peninsula. The area's cooler temperatures are ideal for mink production. Several color classes are produced in the State with Standard the most predominant. Demi-Buff, Pastel, Violet and Ranch Wild are also popular. These 5 color classes equal 87 percent of the State's pelt production. Michigan's pelt production should decrease again in 1986 as about 2,000 less females are bred to produce "kits" in 1986. The decrease in pelt production and females bred is due to the recent down trend in pelt prices.

Pelt Production and Farms

ITEM	1985	1984	1983	1982	1981[1]
Pelt Production by Color Class:	*1,000 Pelts*				
Standard	**64.0**	56.8	48.4	52.3	—
Ranch Wild	**18.6**	31.9	25.9	19.3	—
Demi-Buff	**22.2**	10.1	12.2	17.8	—
Pastel	**19.5**	14.4	16.5	22.8	—
Violet	**20.0**	23.5	16.5	9.5	—
Pearl	**13.0**	16.6	13.2	11.5	—
White	**7.3**	10.8	9.4	9.1	—
Other	**1.9**	3.4	2.4	1.7	—
Total	**166.5**	167.5	144.5	144.0	—
	1,000 Females				
Females Bred to Produce Kits in Next Year	**40.4**	42.4	42.7	40.7	—
Mink Farms Producing Pelts	**53**	56	54	50	—

[1] Data not available for 1981, no survey conducted.

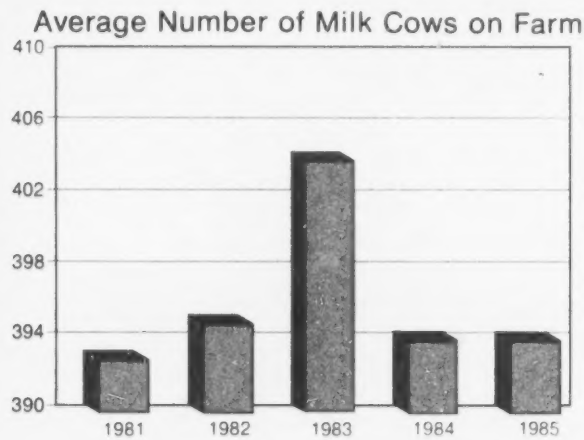
DAIRY

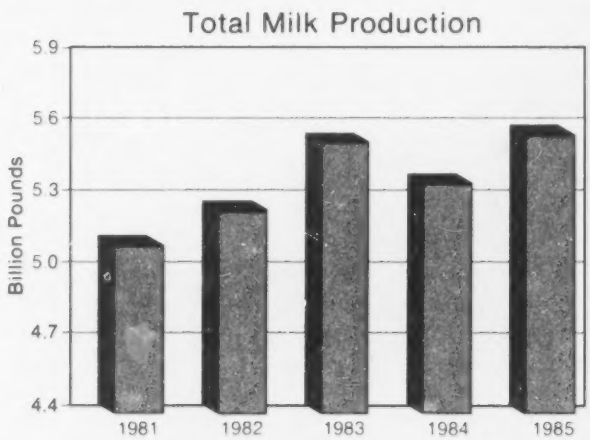
General Information

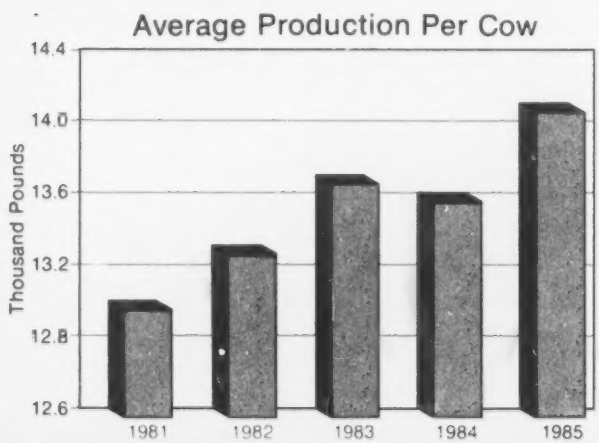
Cash receipts from the 1985 marketings of milk and cream in Michigan totaled $697 million, down 2 percent from the previous year. Cash receipts dropped for the second straight year and fell to their lowest level since 1981. Despite this drop, dairy farming still accounted for nearly 24 percent of Michigan's cash receipts from farming. Lower milk prices offset increased milk marketings. The dairy diversion program designed to reduce milk marketings ended in early 1985. Milk cow numbers increased steadily during the year and producers responded to favorable milk-feed price ratios by boosting grain and concentrate feeding rates by nearly 7 percent. These higher feeding rates contributed to increased milk production.

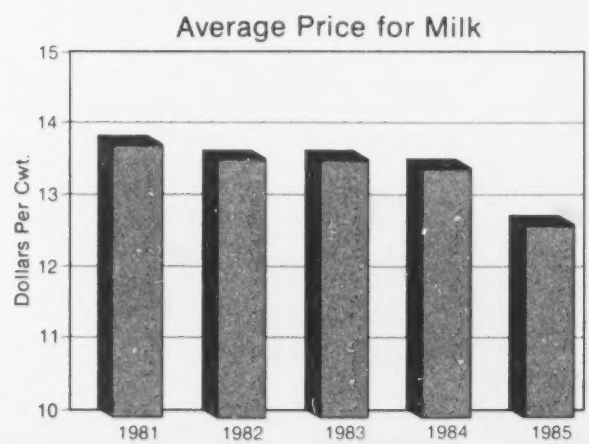
Michigan milk production in 1985 was up 4 percent from 1984. During the past 20 years, average milk cow numbers have declined 33 percent and milk output per cow has increased by nearly 50 percent. Among the states Michigan trailed only California in milk per cow. The number of farms with milk cows remained at 9,000, but only about 7,500 could be defined as "commerical dairy farms." The "top 5" milk producing counties in 1985 were: Sanilac, Huron, Allegan, Clinton and Ottawa.

Annual average milk prices fell below $13 per hundredweight (cwt.) for the first time in six years. Milk prices reached their peak in 1981. The prices received in this bulletin reflect the total value of milk delivered to the dairy plant or receiving station before deductions are made for hauling costs, promotion funds, and special assessments. These deductions are counted as part of dairy farm production costs. The National support price for milk was reduced from $12.60 to $12.10 per cwt. on April 1. On July 1 the support price was reduced to $11.60 per cwt. Dairy legislation extended the $11.60 price through 1986. This legislation also included the Dairy Termination Program, a dairy herd buy-out program designed to make large reductions in cow numbers and milk production. Sales of dairy products rose nearly 5 percent during the latter part of 1985. The 1983-85 growth in commercial dairy product utilization was the strongest in three decades.









Cows and Milk Production

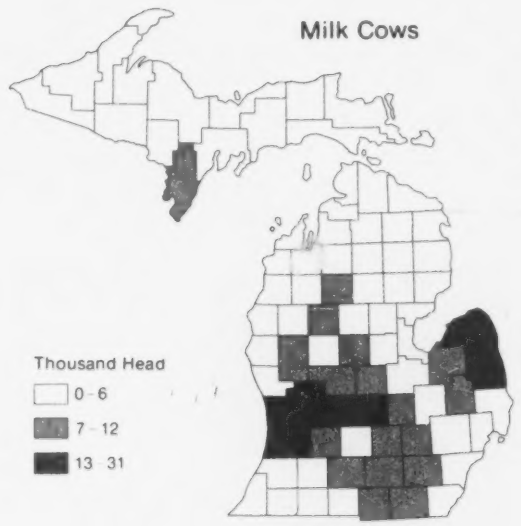
Milk production in Michigan totaled nearly 5.6 billion pounds during 1985, up 4 percent from the previous year. Production approached the record high output of 5.8 billion pounds set in 1964. The larger milk production was due entirely to an increase in milk per cow. Average cow numbers, at 394,000 head, were unchanged from 1984. Cow numbers increased during 1985, reaching a peak of 398,000 head during the fall months. Milk per cow averaged a record 14,132 pounds, up 4 percent from 1984 and 3 percent above the previous record set in 1983. Michigan placed tenth nationally in milk per cow.

Dairy producers sold nearly 5.5 billion pounds of milk to dairy plants and dealers in 1985, up 4 percent from a year earlier. Of the total milk sold, 97 percent was classified as milk eligible for fluid-grade use (grade A milk), with the remainder manufacturing grade. Dairy cash receipts in 1985 exceeded $697 million, down 2 percent from a year earlier. Sharply lower milk prices offset increased marketings as cash receipts slumped to their lowest level since 1981. Milk receipts accounted for over 23 percent of Michigan's total farm cash receipts in 1985. The value of milk sold averaged $12.70 per hundredweight, the lowest price since 1979. Cash receipts from milk sold directly to consumers at the farm dropped to $3 million in 1985. Milk used on the farm as livestock feed totaled 70 million pounds, down 18 percent from the unusually high on-farm usage recorded in 1984.

Milk Cows on Farms

MONTH	1985	1984	1983	1982[1]	1981
	1,000 Head				
January	**389**	400	400	395	390
February	**388**	400	401	393	391
March	**388**	397	403	392	391
April	**390**	397	402		391
May	**392**	394	404	393	391
June	**394**	392	404		392
July	**395**	392	406		393
August	**396**	392	405	397	394
September	**398**	392	408		395
October	**398**	392	408		396
November	**398**	391	407	397	396
December	**397**	390	404		396
Average	**394**	394	404	395	393

[1] Quarterly estimates April-December, 1982.



Total Milk Production

MONTH	1985	1984	1983	1982[1]	1981
	Million Pounds				
January	**445**	454	450	433	417
February	**407**	434	413	393	381
March	**456**	464	463	439	428
April	**449**	453	454		426
May	**486**	463	477	1,324	442
June	**481**	449	471		433
July	**494**	459	481		436
August	**491**	451	476	1,350	441
September	**470**	435	465		429
October	**476**	437	469		430
November	**450**	416	448	1,314	412
December	**463**	435	461		428
Annual	**5,568**	5,350	5,528	5,253	5,103

[1] Quarterly estimates April-December, 1982.

Milk Production per Cow

MONTH	1985	1984	1983	1982[1]	1981
	Pounds				
January	**1,145**	1,135	1,125	1,095	1,070
February	**1,050**	1,085	1,030	1,000	975
March	**1,175**	1,170	1,150	1,120	1,095
April	**1,150**	1,140	1,130		1,090
May	**1,240**	1,175	1,180	3,370	1,130
June	**1,220**	1,145	1,165		1,105
July	**1,250**	1,170	1,185		1,110
August	**1,240**	1,150	1,175	3,400	1,120
September	**1,180**	1,110	1,140		1,085
October	**1,195**	1,115	1,150		1,085
November	**1,130**	1,065	1,100	3,310	1,040
December	**1,165**	1,115	1,140		1,080
Annual	**14,132**	13,579	13,683	13,299	12,985

[1] Quarterly estimates April-December, 1982.

Farms, Milk Production, Utilization, Marketing and Value

PRODUCTION AND USE	Unit	1985	1984	1983	1982	1981
FARMS						
Number of operations with milk cows[1]	Number	**9,000**	9,000	9,000	9,000	9,500
PRODUCTION AND UTILIZATION						
Production of Milk						
Total milk produced on farms	Mil. Lbs.	**5,568**	5,350	5,528	5,253	5,103
Milkfat produced	Mil. Lbs.	**204**	197	202	191	186
Percentage of milkfat	Percent	**3.66**	3.68	3.66	3.64	3.64
Utilization						
Milk Marketed by Producers						
Sold to plants and dealers as whole milk[2]	Mil. Lbs.	**5,465**	5,230	5,410	5,145	4,995
Sold directly to consumers	Mil. Lbs.	**13**	15	18	18	20
Milk used where produced						
Fed to calves	Mil. Lbs.	**70**	85	75	65	63
Used by farm household	Mil. Lbs.	**20**	20	25	25	25
MARKETINGS						
Milk Marketed by Producers						
Sold to plants and dealers						
Quantity[2]	Mil. Lbs.	**5,465**	5,230	5,410	5,145	4,995
Percent fluid grade	Percent	**97**	97	97	97	96
Price per 100 pounds	Dollars	**12.70**	13.50	13.60	13.60	13.80
Cash receipts	1,000 Dol.	**694,055**	706,050	735,760	699,720	689,310
Sold Directly to Consumers						
Quantity	1,000 Qts.	**6,047**	6,977	8,372	8,372	9,302
Price per quart	Dollars	**.50**	.50	.50	.50	.50
Cash receipts	1,000 Dol.	**3,023**	3,488	4,186	4,186	4,651
Total Marketings						
Milk utilized	Mil. Lbs.	**5,478**	5,245	5,428	5,163	5,015
Price per 100 pounds of milk	Dollars	**12.73**	13.53	13.63	13.63	13.84
Price per pound milkfat	Dollars	**3.48**	3.68	3.72	3.75	3.80
Total cash receipts	1,000 Dol.	**697,078**	709,538	739,946	703,906	693,961
VALUE						
Value of milk used where produced[3]	1,000 Dol.	**11,453**	14,205	13,632	12,270	12,177
TOTAL VALUE OF MILK PRODUCED	1,000 Dol.	**708,531**	723,743	753,578	716,176	706,138

[1] Any place having one or more milk cows on hand at any time during the year.
[2] Includes the equivalent amounts of milk for cream sold to plants and dealers.
[3] Includes value of milk fed to calves and milk used by farm household.

Dairy Products

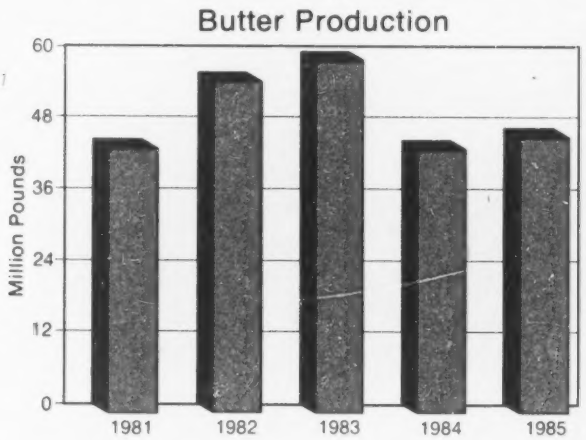
A large portion of the milk produced by Michigan dairy herds is marketed in the form of manufactured dairy products. During 1985, Michigan placed in the top ten nationally in the production of butter, cottage cheese, condensed skim milk, non-fat dry milk, dry buttermilk, ice cream, and ice milk. Production of most dairy products increased during 1985. Output of some products was reduced in 1984 due to the impact of the dairy diversion program. A total of 58 plants produced dairy products for which statistics are compiled.

Butter production totaled 45.6 million pounds, up 5 percent from the previous year. Michigan placed sixth nationally in output. Production of non-fat dry milk for human food was up 3 percent. Michigan placed fourth nationally in non-fat dry milk production and second in unsweetened condensed skim milk. Production of unsweetened condensed skim milk was up 27 percent. Lowfat cottage cheese output rose 33 percent, continuing the recent trend of large yearly increases. Creamed cottage cheese (milkfat 4 percent or more) output increased 17 percent as Michigan placed sixth nationally.

Hard cheese output exceeded 51 million pounds during 1985, a 27 percent increase from 1984. American cheese, at nearly 21 million pounds, was up 31 percent. Italian cheese (primarily mozzarella) increased 25 percent and other assorted cheeses (largely Havarti and Farmers cheese) soared 41 percent. A total of 15 hard cheese plants and 35 ice cream plants operated in Michigan last year. Ice cream production exceeded 35 million gallons, a gain of 13 percent from a year earlier. Michigan placed ninth nationally in production. Production of ice milk and milk sherbet also increased.

Butter Production

MONTH	1985	1984	1983
		1,000 Pounds	
January	**3,523**	5,596	5,750
February	**3,456**	5,215	5,458
March	**3,757**	5,163	5,955
April	**3,763**	4,917	5,526
May	**4,429**	4,348	5,729
June	**3,546**	2,847	4,801
July	**3,546**	2,069	3,346
August	**3,930**	2,057	2,983
September	**3,600**	2,319	3,508
October	**4,078**	3,657	4,965
November	**3,521**	2,447	4,907
December	**4,459**	2,933	5,577
Annual	**45,608**	43,568	58,505



Creamed Cottage Cheese Production

MONTH	1985	1984	1983
		1,000 Pounds	
January	**3,064**	2,883	3,313
February	**2,936**	2,843	3,184
March	**3,154**	2,209	3,854
April	**3,292**	1,907	3,573
May	**3,519**	2,146	3,599
June	**2,850**	2,371	3,698
July	**3,238**	2,263	3,463
August	**3,113**	3,103	3,355
September	**2,912**	2,596	3,331
October	**2,897**	2,902	2,957
November	**2,675**	2,923	2,988
December	**2,421**	2,790	2,799
Annual	**36,071**	30,936	40,114

Nonfat Dry Milk Production[1]

MONTH	1985	1984	1983
		1,000 Pounds	
January	**6,807**	8,868	8,899
February	**6,204**	8,218	8,730
March	**7,473**	8,818	9,432
April	**7,815**	8,701	8,863
May	**9,927**	9,150	9,527
June	**10,767**	9,112	9,337
July	**10,968**	10,018	8,696
August	**10,898**	8,481	8,812
September	**8,263**	8,392	8,094
October	**9,468**	8,017	8,604
November	**7,891**	7,183	8,488
December	**9,457**	7,851	8,947
Annual	**105,938**	102,809	106,429

[1] Used for human food.

Ice Cream Production

MONTH	1985	1984	1983
	1,000 Gallons		
January	**2,408**	2,039	2,161
February	**2,419**	2,070	2,289
March	**2,734**	2,308	3,016
April	**3,116**	2,416	2,517
May	**3,477**	2,715	3,033
June	**3,509**	3,341	3,616
July	**4,144**	3,563	3,654
August	**3,510**	3,446	3,748
September	**2,870**	2,738	3,302
October	**2,687**	2,522	2,415
November	**2,205**	2,172	2,295
December	**2,255**	2,068	2,229
Annual	**35,334**	31,398	34,275

Ice Milk Production

MONTH	1985	1984	1983
	1,000 Gallons		
January	**609**	535	459
February	**617**	559	550
March	**940**	688	737
April	**1,111**	798	799
May	**1,346**	1,108	1,073
June	**1,272**	1,328	1,303
July	**1,545**	1,328	1,296
August	**1,381**	1,315	1,217
September	**931**	739	858
October	**745**	623	623
November	**583**	544	592
December	**529**	441	457
Annual	**11,609**	10,006	9,964

Milk Sherbet Production

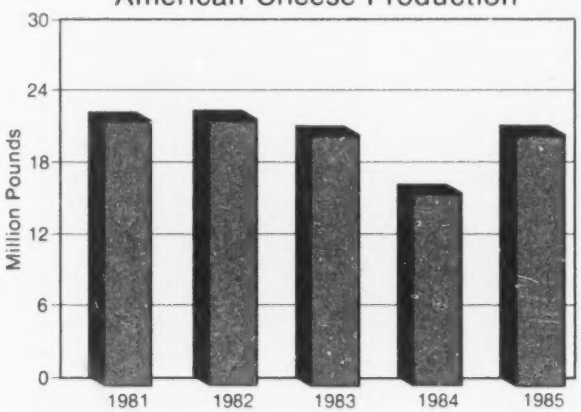
MONTH	1985	1984	1983
	1,000 Gallons		
January	**105**	78	84
February	**75**	87	97
March	**122**	100	131
April	**119**	120	114
May	**185**	140	137
June	**147**	175	174
July	**157**	142	166
August	**160**	167	151
September	**108**	121	118
October	**118**	109	95
November	**102**	83	99
December	**126**	103	108
Annual	**1,524**	1,425	1,474

Total Cheese Production[1]

MONTH	1985	1984	1983
	1,000 Pounds		
January	**4,376**	2,956	2,925
February	**4,190**	2,794	2,733
March	**3,967**	3,041	3,071
April	**5,223**	3,129	2,859
May	**5,491**	3,555	3,129
June	**4,696**	3,663	3,365
July	**3,896**	3,380	3,332
August	**3,985**	3,394	3,695
September	**3,852**	3,321	3,274
October	**4,082**	3,686	3,352
November	**3,784**	3,605	2,954
December	**2,845**	4,007	3,147
Annual	**51,387**	40,531	37,836

[1] Includes American Cheeses, Mozzarella and other Italian Cheeses, Cream Cheese, Feta, Havarti and Farmers Cheese. Excludes Cottage Cheeses.

American Cheese Production



American Cheese Production[1]

MONTH	1985	1984	1983
	1,000 Pounds		
January	**1,966**	1,353	1,713
February	**2,287**	1,095	1,457
March	**1,387**	1,078	1,658
April	**2,491**	1,221	1,609
May	**2,620**	1,272	1,686
June	**1,862**	1,313	1,896
July	**1,353**	1,495	1,895
August	**1,722**	1,212	1,870
September	**1,196**	1,172	1,828
October	**1,214**	1,228	1,924
November	**1,302**	1,464	1,712
December	**1,176**	1,829	1,989
Annual	**20,576**	15,732	21,237

[1] Includes Cheddar, Colby, Washed or Stirred Curd, Monterey and Jack.

County Estimates

Crop Reporting Districts

The state is divided into 9 crop reporting districts. The purpose of division is to make easier comparisons of crop progress. The crop reporting districts are numbered from north to south with district 1 in the U.P. to district 9 in the southeast. Each district has within itself more homogeneous agriculture than does the state as a whole. Different soil types, fertility, precipitation, and length of growing season make each district unique.

1 Upper Peninsula
2 Northwest
3 Northwest
4 West Central
5 Central
6 East Central
7 Southwest
8 South Central
9 Southeast

General Information

Estimates are not published for counties with small acreages, inventories or production. Livestock rankings based on number of head. Crop rankings based on production. Corn ranking based on grain production. Dry bean yields are rounded to the nearest 10 pounds. Potato yields are rounded to the nearest 5 hundred-weight.

Rank of Michigan's Counties[1]

COUNTY	Farms	Corn	Soy-beans	Wheat	Dry Beans	Oats	Pota-toes	Barley	All Cattle	Milk Cows	All Hogs	HP LA[2]	Sheep
Alger	77	73	63*	77	—	78	58*	15	71*	64*	70*	80*	36*
Baraga	78	77*	—	75*	—	68*	—	40	76	72	—	77*	—
Chippewa	49	70	—	59	—	39	66	10	50	45	55*	16	16
Delta	54	66	43	64	23	35	19	3*	47	42	49*	56	64*
Dickinson	69*	67	—	—	—	70	11	30	65	64*	74*	73*	74*
Gogebic	76	81	—	—	—	76	74*	76*	79	77	—	75*	46*
Houghton	64	71	—	—	—	54	31	51*	69	62*	70*	38*	58*
Iron	72	77*	—	70	—	65	30	62	70	73*	75*	60*	64*
Keweenaw	83	—	—	—	—	—	—	—	—	—	—	81*	—
Luce	81	79	—	66	56*	75	26	56	77*	—	70*	77*	—
Mackinaw	73	74	63*	67	—	63*	74*	54	62*	60*	—	68*	74*
Marquette	68	76	—	—	—	71	29	24*	73	71	65*	68*	58*
Menominee	44	49	59	68	56*	40*	55*	3*	28*	22*	55*	30	68*
Ontonagon	66	75	61*	74	—	61	72*	47	62*	64*	75*	75*	48*
Schoolcraft	79	72	58	75*	33	67	44	18	74	73*	70*	81*	—
Antrim	58	52	61*	53	38*	57	10	69*	53	49*	53	29	56*
Benzie	65	69	—	63	—	82	68	—	75	78*	44	60*	74*
Charlevoix	59	56	63*	69	42*	72	63	28	54	51	48	28	58*
Emmet	60	61	63*	71	38*	58	20	57	55*	60*	61*	57*	48*
Grand Traverse	43	48	57	50	52*	63*	69*	73	55*	58	42	51*	64*
Kalkaska	74	58	54*	57	52*	77	12	—	77*	73*	58*	77*	74*
Leelanau	48	53	63*	60*	56*	66	46*	78	59	64*	58*	37	64*
Manistee	56	57	47	60*	27	74	15	49	68	73*	65*	57*	58*
Missaukee	51	47	—	54	48*	36	36	69*	20*	12	40*	60*	45
Wexford	62	54	60	55	52*	62	67	74	61	52*	49*	68*	58*
Alcona	57	62	49*	52	42*	42	77*	48	51*	59	55*	26*	33*
Alpena	45	55	49*	46	16	18	34	22	41	37	54	33*	33*
Cheboygan	63	64*	49*	56	31	60	77*	23	55*	49*	65*	60*	46*
Crawford	82	—	—	—	—	80	55*	—	82	—	—	81*	—
Iosco	61	45	42	45	28	40*	54	45	42	52*	46*	73*	43*
Montmorency	71	60	48	60*	29	53	55*	29	67	57	69	65*	53*
Ogemaw	55	51	45*	47*	26	31	51*	33	35	33*	61*	60*	40*
Oscoda	75	68	—	73	—	79	—	66	66	62*	75*	65*	53*
Otsego	67	63	—	58	34*	55	16	55	62*	68*	68	72	68*
Presque Isle	52	59	49*	49	15	25	3	14	44	46	61*	51*	56*
Roscommon	80	80	—	72	—	81	—	72	81	—	75*	68*	74*
Lake	69*	64*	68	65	61	68*	58*	76*	71*	68*	61*	51*	58*
Mason	41	42	41	40	40*	37	64*	53	39*	35*	52	35	24*
Muskegon	42	38	39	41	62*	51	64*	43	38	31	40*	51*	53*
Newaygo	35	36	44	43	40*	44	40	68	24*	18	34	6*	21*
Oceana	36	41	56	44	64	59	51*	71	36	38	32	21	48*
Clare	53	50	45*	42	36*	47	62	17	34	41	31	65*	18*
Gladwin	47	44	37	35	19	34	—	27	43	48	46*	49*	28*
Gratiot	21	7	4	7	3	14	21	21	14*	17	20*	11	31*

Rank of Michigan's Counties[1]

COUNTY	Farms	Corn	Soy-beans	Wheat	Dry Beans	Oats	Pota-toes	Barley	All Cattle	Milk Cows	All Hogs	HP LA[2]	Sheep
Isabella	30	30	26	17	13	12	42	6	10	8	23	8	21*
Mecosta	38	40	54*	39	18	38	4	19	28*	27	39	49*	21*
Midland	40	34	24	31	12	48	41	50	51*	68*	38	59	68*
Montcalm	24	22	29	16	6	21	1	7	18	10	24	45	27
Osceola	39	46	53	47*	48*	46	39	32	26*	22*	43	33*	36*
Arenac	50	37	30	29	10	33	6*	39	48*	40	36	46*	68*
Bay	26	20	23	22	4	50	2	35*	60	52*	45	48	68*
Huron	5	2	35	1	1	2	17*	1	1	2	7	2	48*
Saginaw	4	14	2	4	7	16	22	35*	32*	29*	29*	31*	11
Sanilac	1	9	10	3	5	1	28	2	2	1	28	36	36*
Tuscola	10	4	17	2	2	8	9	5	20*	20*	17*	5	36*
Allegan	2	12	31	26	44*	22*	6*	42	3	3	3	4	17
Berrien	3	28	13	34	44*	56	49*	58*	48*	43*	15	18	52
Cass	29	19	16	32	—	52	49*	11	37	43*	1	44	13
Kalamazoo	32	23	14	24	55	30	48	41	31	35*	11*	6*	12
Kent	8	24	36	27	24	15	14	12	5	6	17*	9	28*
Ottawa	7	25	38	33	44*	24	33	38	4	5	—2	1	42*
Van Buren	11	26	28	38	—	45	51*	37	39*	47	4	10	26*
Barry	27	31	25	23	22	27	25	44	14*	13*	25*	17	18*
Branch	23	6	7	25	56*	29	72*	51*	24*	29*	6	38*	7
Calhoun	19	10	21	14	47	13	35	31	13	24	11*	12*	14*
Clinton	9	18	6	5	9	7	43	13	6*	4	16	38*	8
Eaton	14	11	11	11	8	22*	13	58*	23	28	22	22	5
Hillsdale	16	3	8	20	56*	19	69*	67	12	13*	9	14	4
Ingham	25	17	19	12	20	17	23	34	16	11	13*	19	6
Ionia	22	15	18	8	11	9	46*	8	6*	7	10	3	18*
Jackson	20	13	32	21	36*	20	45	64	8*	20*	13*	31*	2
St. Joseph	28	5	12	30	48*	49	61	63	32*	33*	5	20	10
Shiawassee	13	29	5	9	17	3	37	20	19	15*	25*	26*	24*
Genesee	31	27	15	19	30	10	17*	46	30	32	27	24	28*
Lapeer	15	21	33	15	14	6	27	9	8*	9	29*	38*	9
Lenawee	6	1	1	6	32	11	8	24*	11	19	8	25	3
Livingston	33	32	34	28	34*	32	69*	65	20*	25	35	46*	14*
Macomb	34	35	20	36	25	28	32	58*	45	39	33	38*	40*
Monroe	12	8	3	13	48*	26	5	58*	46	55*	17*	12*	32*
Oakland	37	39	40	37	—	43	74*	75	58	55*	49*	51*	33*
St. Clair	18	33	9	18	21	5	38	26	26*	26	37	15	43*
Washtenaw	17	16	22	10	62*	4	24	16	17	15*	20*	23	1
Wayne	46	43	27	51	—	73	60	—	80	78*	60	38*	68*

[1] Livestock rankings based on number of head. Crop rankings based on production. Corn rankings based on grain production. Number of farms data from 1982 Census of Agriculture. All other rankings from 1985 County Estimates.

[2] HPLA — Hens and Pullets of Laying Age.

* Tied with another county.

Cattle and Sheep: January 1, 1986

DISTRICT AND COUNTY	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	All Sheep and Lambs
		Head			*Head*
Alger	2,500	950	800	150	800
Baraga	1,700	750	400	350	—
Chippewa	9,100	4,500	2,500	2,000	2,000
Delta	9,800	4,900	2,800	2,100	150
Dickinson	3,600	1,700	800	900	50
Gogebic	1,200	550	200	350	500
Houghton	3,000	1,250	900	350	200
Iron	2,600	1,700	300	1,400	150
Keweenaw	—	—	—	—	—
Luce	1,300	300	—	300	—
Mackinac	4,100	1,800	1,000	800	50
Marquette	2,100	900	500	400	200
Menominee	22,000	9,500	7,700	1,800	100
Ontonagon	4,100	1,800	800	1,000	400
Schoolcraft	1,900	900	300	600	—
UPPER PENINSULA (1)	69,000	31,500	19,000	12,500	4,600
Antrim	7,900	2,700	1,800	900	250
Benzie	1,800	600	100	500	50
Charlevoix	7,200	3,200	1,700	1,500	200
Emmet	7,000	3,200	1,000	2,200	400
Grand Traverse	7,000	2,300	1,200	1,100	150
Kalkaska	1,300	500	300	200	50
Leelanau	6,000	1,500	800	700	150
Manistee	3,100	1,400	300	1,100	200
Missaukee	25,000	10,800	9,800	1,000	550
Wexford	4,700	2,300	1,500	800	200
NORTHWEST (2)	71,000	28,500	18,500	10,000	2,200
Alcona	9,000	3,700	1,100	2,600	900
Alpena	11,700	5,600	3,400	2,200	900
Cheboygan	7,000	3,500	1,800	1,700	500
Crawford	100	—	—	—	—
Iosco	11,500	4,300	1,500	2,800	600
Montmorency	3,300	1,800	1,300	500	300
Ogemaw	14,700	5,600	3,900	1,700	700
Oscoda	3,500	1,600	900	700	300
Otsego	4,100	1,400	700	700	100
Presque Isle	10,700	4,800	2,400	2,400	250
Roscommon	400	200	—	200	50
NORTHEAST (3)	76,000	32,500	17,000	15,500	4,600
Lake	2,500	1,200	700	500	200
Mason	12,000	4,200	3,600	600	1,400
Muskegon	13,800	5,000	4,300	700	300
Newaygo	23,500	9,900	8,200	1,700	1,500
Oceana	14,200	4,700	3,200	1,500	400
WEST CENTRAL (4)	66,000	25,000	20,000	5,000	3,800
Clare	15,000	5,800	2,900	2,900	1,700
Gladwin	11,000	4,400	1,900	2,500	1,200
Gratiot	31,000	11,200	8,300	2,900	1,100

Cattle and Sheep: January 1, 1986

DISTRICT AND COUNTY	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	All Sheep and Lambs
		Head			*Head*
Isabella	36,000	14,000	11,200	2,800	1,500
Mecosta	22,000	9,100	6,000	3,100	1,500
Midland	9,000	1,700	700	1,000	100
Montcalm	27,000	11,600	10,300	1,300	1,300
Osceola	23,000	11,200	7,700	3,500	800
CENTRAL (5)	174,000	69,000	49,000	20,000	9,200
Arenac	9,500	3,600	3,000	600	100
Bay	5,000	1,900	1,500	400	100
Huron	83,000	23,800	20,500	3,300	400
Saginaw	16,500	6,500	5,000	1,500	2,400
Sanilac	81,000	33,500	31,000	2,500	800
Tuscola	25,000	10,700	8,000	2,700	800
EAST CENTRAL (6)	220,000	80,000	69,000	11,000	4,600
Allegan	53,000	19,900	16,400	3,500	1,900
Berrien	9,500	4,100	2,700	1,400	350
Cass	14,000	6,200	2,700	3,500	2,200
Kalamazoo	18,500	5,800	3,600	2,200	2,300
Kent	44,000	17,500	14,000	3,500	1,200
Ottawa	51,000	19,400	14,900	4,500	650
Van Buren	12,000	4,600	2,200	2,400	1,400
SOUTHWEST (7)	202,000	77,500	56,500	21,000	10,000
Barry	31,000	13,800	9,700	4,100	1,700
Branch	23,500	7,200	5,000	2,200	3,600
Calhoun	32,500	12,600	7,400	5,200	2,100
Clinton	42,000	17,500	15,500	2,000	3,200
Eaton	24,000	10,100	5,600	4,500	4,200
Hillsdale	33,500	13,200	9,700	3,500	4,500
Ingham	29,000	12,600	10,000	2,600	4,100
Ionia	42,000	16,400	13,800	2,600	1,700
Jackson	37,000	13,100	8,000	5,100	7,000
St. Joseph	16,500	5,800	3,900	1,900	2,500
Shiawassee	26,000	10,700	8,400	2,300	1,400
SOUTH CENTRAL (8)	337,000	133,000	97,000	36,000	36,000
Genesee	19,500	6,100	4,200	1,900	1,200
Lapeer	37,000	14,400	10,700	3,700	2,700
Lenawee	34,500	10,500	8,100	2,400	5,600
Livingston	25,000	9,200	7,100	2,100	2,100
Macomb	10,500	4,200	3,100	1,100	700
Monroe	10,000	2,200	1,400	800	1,100
Oakland	6,500	3,300	1,400	1,900	900
St. Clair	23,000	11,800	6,500	5,300	600
Washtenaw	28,000	11,100	8,400	2,700	18,000
Wayne	1,000	200	100	100	100
SOUTHEAST (9)	195,000	73,000	51,000	22,000	33,000
STATE	1,410,000	550,000	397,000	153,000	108,000

Cattle and Sheep: January 1, 1985

DISTRICT AND COUNTY	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	All Sheep and Lambs
		Head			*Head*
Alger	2,600	1,100	900	200	700
Baraga	1,700	700	400	300	50
Chippewa	9,400	4,500	2,400	2,100	1,800
Delta	10,200	4,800	2,700	2,100	200
Dickinson	3,700	1,800	900	900	50
Gogebic	1,200	600	200	400	—
Houghton	3,000	1,300	900	400	150
Iron	2,800	1,800	300	1,500	700
Keweenaw	—	—	—	—	—
Luce	1,300	300	—	300	—
Mackinac	4,400	2,000	1,200	800	—
Marquette	2,200	900	500	400	100
Menominee	23,500	9,800	8,000	1,800	50
Ontonagon	4,000	1,700	700	1,000	400
Schoolcraft	2,000	1,200	400	800	—
UPPER PENINSULA (1)	72,000	32,500	19,500	13,000	4,200
Antrim	8,300	2,700	1,800	900	200
Benzie	1,800	600	100	500	50
Charlevoix	6,900	3,100	1,600	1,500	200
Emmet	7,500	3,300	1,100	2,200	200
Grand Traverse	7,000	2,400	1,300	1,100	100
Kalkaska	1,400	600	400	200	50
Leelanau	6,400	1,600	900	700	200
Manistee	3,200	1,500	300	1,200	300
Missaukee	25,500	11,000	10,000	1,000	600
Wexford	5,000	2,200	1,500	700	100
NORTHWEST (2)	73,000	29,000	19,000	10,000	2,000
Alcona	9,300	3,900	1,200	2,700	1,000
Alpena	12,400	5,600	3,300	2,300	900
Cheboygan	7,500	3,700	1,900	1,800	400
Crawford	100	—	—	—	—
Iosco	12,000	4,300	1,500	2,800	500
Montmorency	3,500	1,800	1,300	500	300
Ogemaw	15,300	5,800	4,000	1,800	600
Oscoda	3,700	1,700	1,000	700	400
Otsego	4,300	1,400	700	700	100
Presque Isle	11,500	5,100	2,600	2,500	200
Roscommon	400	200	—	200	—
NORTHEAST (3)	80,000	33,500	17,500	16,000	4,400
Lake	2,400	1,200	600	600	200
Mason	12,800	4,400	3,700	700	1,200
Muskegon	14,300	5,200	4,500	700	300
Newaygo	24,000	9,900	8,100	1,800	1,000
Oceana	14,500	4,800	3,100	1,700	500
WEST CENTRAL (4)	68,000	25,500	20,000	5,500	3,200
Clare	15,000	6,000	2,900	3,100	1,300
Gladwin	11,000	4,500	1,900	2,600	1,100
Gratiot	32,000	11,200	8,200	3,000	1,800

Cattle and Sheep: January 1, 1985

DISTRICT AND COUNTY	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	All Sheep and Lambs
		Head			*Head*
Isabella	38,000	14,100	11,200	2,900	1,000
Mecosta	23,000	9,100	5,800	3,300	1,000
Midland	9,500	1,800	700	1,100	200
Montcalm	28,000	11,400	10,000	1,400	1,400
Osceola	24,500	11,400	7,800	3,600	1,200
CENTRAL (5)	181,000	69,500	48,500	21,000	9,000
Arenac	9,500	3,400	2,800	600	150
Bay	5,000	1,800	1,400	400	50
Huron	84,000	23,000	19,500	3,500	400
Saginaw	16,500	6,200	4,600	1,600	1,800
Sanilac	82,000	32,600	30,000	2,600	900
Tuscola	25,000	10,500	7,700	2,800	900
EAST CENTRAL (6)	222,000	77,500	66,000	11,500	4,200
Allegan	55,000	19,400	15,800	3,600	2,000
Berrien	8,500	3,900	2,400	1,500	300
Cass	14,500	6,100	2,500	3,600	2,800
Kalamazoo	19,500	6,200	3,800	2,400	2,200
Kent	44,000	16,800	13,200	3,600	1,400
Ottawa	53,000	19,200	14,500	4,700	1,100
Van Buren	11,500	4,900	2,300	2,600	1,200
SOUTHWEST (7)	206,000	76,500	54,500	22,000	11,000
Barry	31,500	13,500	9,300	4,200	1,900
Branch	25,000	7,500	5,200	2,300	3,600
Calhoun	33,500	12,800	7,300	5,500	2,500
Clinton	44,000	17,700	15,500	2,200	3,400
Eaton	25,000	10,300	5,500	4,800	4,500
Hillsdale	34,500	13,200	9,500	3,700	4,600
Ingham	31,000	12,700	10,000	2,700	4,500
Ionia	42,000	16,400	13,700	2,700	1,800
Jackson	38,500	13,400	8,000	5,400	6,500
St. Joseph	17,000	5,800	3,800	2,000	2,200
Shiawassee	26,000	10,700	8,200	2,500	1,500
SOUTH CENTRAL (8)	348,000	134,000	96,000	38,000	37,000
Genesee	20,000	6,200	4,200	2,000	1,400
Lapeer	38,000	14,000	10,200	3,800	2,800
Lenawee	34,500	10,500	8,000	2,500	4,400
Livingston	26,000	9,300	7,000	2,300	2,600
Macomb	10,500	3,900	2,800	1,100	600
Monroe	10,000	1,900	1,200	700	800
Oakland	6,500	3,300	1,200	2,100	700
St. Clair	23,500	11,800	6,300	5,500	600
Washtenaw	30,000	10,800	8,000	2,800	21,000
Wayne	1,000	300	100	200	100
SOUTHEAST (9)	200,000	72,000	49,000	23,000	35,000
STATE	1,450,000	550,000	390,000	160,000	110,000

MILK: Cow Number, Production Per Cow, Total Production, 1984-85

DISTRICT AND COUNTY	1985			1984		
	Milk Cows	Milk per Cow	Total Milk Produced	Milk Cows	Milk per Cow	Total Milk Produced
	Head	*Pounds*	*1,000 Pounds*	*Head*	*Pounds*	*1,000 Pounds*
Alger	800	13,500	10,800	900	13,220	11,900
Baraga	400	14,250	5,700	400	13,750	5,500
Chippewa	2,500	12,800	32,000	2,500	12,400	31,000
Delta	2,800	12,860	36,000	2,700	12,480	33,700
Dickinson	900	15,000	13,500	1,000	14,600	14,600
Gogebic	200	13,500	2,700	200	13,000	2,600
Houghton	900	13,330	12,000	1,000	12,900	12,900
Iron	300	15,000	4,500	300	14,670	4,400
Keweenaw	—	—	—	—	—	—
Luce	—	—	—	—	—	—
Mackinac	1,100	14,270	15,700	1,200	13,830	16,600
Marquette	500	13,000	6,500	600	12,670	7,600
Menominee	7,900	12,910	102,000	8,100	12,530	101,500
Ontonagon	800	14,500	11,600	700	14,140	9,900
Schoolcraft	400	15,000	6,000	400	14,500	5,800
UPPER PENINSULA (1)	19,500	13,282	259,000	20,000	12,900	258,000
Antrim	1,800	13,890	25,000	1,800	13,220	23,800
Benzie	100	14,000	1,400	100	13,000	1,300
Charlevoix	1,700	13,530	23,000	1,700	13,000	22,100
Emmet	1,100	13,640	15,000	1,200	12,920	15,500
Grand Traverse	1,300	14,920	19,400	1,300	14,540	18,900
Kalkaska	400	12,500	5,000	400	12,000	4,800
Leelanau	900	15,000	13,500	900	14,440	13,000
Manistee	300	12,330	3,700	300	12,330	3,700
Missaukee	9,900	15,560	154,000	10,200	14,660	149,500
Wexford	1,500	13,330	20,000	1,600	12,750	20,400
NORTHWEST (2)	19,000	14,737	280,000	19,500	14,000	273,000
Alcona	1,100	15,270	16,800	1,200	14,580	17,500
Alpena	3,300	15,150	50,000	3,200	14,530	46,500
Cheboygan	1,800	15,000	27,000	1,900	14,470	27,500
Crawford	—	—	—	—	—	—
Iosco	1,500	15,000	22,500	1,500	14,330	21,500
Montmorency	1,300	13,080	17,000	1,300	12,690	16,500
Ogemaw	3,900	13,850	54,000	4,100	13,290	54,500
Oscoda	900	15,000	13,500	1,100	14,360	15,800
Otsego	700	13,860	9,700	700	13,570	9,500
Presque Isle	2,500	13,400	33,500	2,500	13,080	32,700
Roscommon	—	—	—	—	—	—
NORTHEAST (3)	17,000	14,353	244,000	17,500	13,829	242,000
Lake	600	14,170	8,500	500	13,400	6,700
Mason	3,600	14,440	52,000	3,700	13,920	51,500
Muskegon	4,400	14,090	62,000	4,600	13,370	61,500
Newaygo	8,200	14,150	116,000	8,200	13,290	109,000
Oceana	3,200	14,530	46,500	3,000	13,770	41,300
WEST CENTRAL (4)	20,000	14,250	285,000	20,000	13,500	270,000
Clare	2,900	14,480	42,000	2,900	14,280	41,400
Gladwin	1,900	14,470	27,500	1,800	13,890	25,000
Gratiot	8,300	14,820	123,000	8,400	14,460	121,500

MILK: Cow Number, Production Per Cow, Total Production, 1984-85

DISTRICT AND COUNTY	1985			1984		
	Milk Cows	Milk per Cow	Total Milk Produced	Milk Cows	Milk per Cow	Total Milk Produced
	Head	*Pounds*	*1,000 Pounds*	*Head*	*Pounds*	*1,000 Pounds*
Isabella	11,200	13,660	153,000	11,200	12,950	145,000
Mecosta	5,900	14,750	87,000	5,900	14,610	86,200
Midland	700	13,570	9,500	700	13,430	9,400
Montcalm	10,300	13,300	137,000	10,200	12,990	132,500
Osceola	7,800	14,100	110,000	7,900	13,540	107,000
CENTRAL (5)	49,000	14,061	689,000	49,000	13,633	668,000
Arenac	2,900	12,760	37,000	2,900	12,340	35,800
Bay	1,500	14,000	21,000	1,400	13,860	19,400
Huron	20,000	14,750	295,000	19,500	14,100	275,000
Saginaw	4,800	13,960	67,000	4,600	13,650	62,800
Sanilac	30,500	15,250	465,000	30,500	14,920	455,000
Tuscola	7,800	13,460	105,000	7,600	13,160	100,000
EAST CENTRAL (6)	67,500	14,667	990,000	66,500	14,256	948,000
Allegan	16,100	13,980	225,000	16,000	13,190	211,000
Berrien	2,600	13,850	36,000	2,200	12,910	28,400
Cass	2,600	12,880	33,500	2,500	11,840	29,600
Kalamazoo	3,700	13,650	50,500	3,700	13,240	49,000
Kent	13,600	14,710	200,000	13,600	13,970	190,000
Ottawa	14,700	14,760	217,000	14,700	13,840	203,500
Van Buren	2,200	12,730	28,000	2,300	11,960	27,500
SOUTHWEST (7)	55,500	14,234	790,000	55,000	13,436	739,000
Barry	9,500	14,000	133,000	9,500	13,400	127,300
Branch	5,100	13,530	69,000	5,200	12,880	67,000
Calhoun	7,300	14,250	104,000	7,300	13,490	98,500
Clinton	15,500	14,450	224,000	15,500	13,900	215,500
Eaton	5,600	13,040	73,000	5,800	12,330	71,500
Hillsdale	9,600	14,270	137,000	9,700	13,610	132,000
Ingham	10,000	14,100	141,000	10,000	13,600	136,000
Ionia	13,700	13,580	186,000	13,600	12,900	175,500
Jackson	8,000	13,130	105,000	8,000	12,630	101,000
St. Joseph	3,900	13,330	52,000	4,000	12,930	51,700
Shiawassee	8,300	13,370	111,000	8,400	12,860	108,000
SOUTH CENTRAL (8)	96,500	13,834	1,335,000	97,000	13,237	1,284,000
Genesee	4,200	14,290	60,000	4,200	13,980	58,700
Lapeer	10,500	14,480	152,000	10,500	14,100	148,000
Lenawee	8,000	14,630	117,000	8,000	13,940	111,500
Livingston	7,000	13,430	94,000	7,200	13,060	94,000
Macomb	3,000	13,670	41,000	2,900	13,340	38,700
Monroe	1,300	13,850	18,000	1,200	13,750	16,500
Oakland	1,300	13,540	17,600	1,200	13,250	15,900
St. Clair	6,400	12,810	82,000	6,200	12,470	77,300
Washtenaw	8,200	13,780	113,000	8,000	13,250	106,000
Wayne	100	14,000	1,400	100	14,000	1,400
SOUTHEAST (9)	50,000	13,920	696,000	49,500	13,495	668,000
STATE	394,000	14,132	5,568,000	394,000	13,579	5,350,000

Hogs and Pigs, Chickens: December 1, 1984-85

DISTRICT AND COUNTY	All Hogs and Pigs		Sows Farrowed		Hens and Pullets of Laying Age	
	1985	1984	1985	1984	1985	1984
	Head				*Birds*	
Alger	200	—	—	—	—	—
Baraga	—	—	—	—	—	—
Chippewa	1,000	900	150	200	71,000	66,000
Delta	1,500	1,500	250	250	1,800	2,000
Dickinson	100	150	—	100	—	—
Gogebic	—	—	—	—	—	—
Houghton	200	200	—	—	10,000	11,000
Iron	—	—	—	—	1,000	1,000
Keweenaw	—	—	—	—	—	—
Luce	200	200	—	—	—	—
Mackinac	—	—	—	—	—	—
Marquette	500	600	100	100	—	—
Menominee	1,000	1,100	350	400	20,500	22,000
Ontonagon	—	—	—	—	—	—
Schoolcraft	200	150	—	—	—	—
UPPER PENINSULA (1)	5,000	5,000	1,100	1,300	108,000	105,500
Antrim	1,200	1,000	250	300	23,000	22,000
Benzie	2,600	3,500	250	300	1,000	1,000
Charlevoix	1,900	1,800	200	150	26,000	27,500
Emmet	600	600	100	100	1,500	1,000
Grand Traverse	3,300	3,100	600	550	2,500	3,500
Kalkaska	900	1,100	150	300	—	—
Leelanau	900	1,200	150	200	10,500	11,500
Manistee	500	600	100	100	1,500	1,500
Missaukee	4,100	4,000	1,100	1,400	1,000	1,500
Wexford	1,500	1,600	300	800	—	—
NORTHWEST (2)	17,500	18,500	3,200	4,200	68,000	70,500
Alcona	1,000	900	150	100	27,000	20,000
Alpena	1,100	1,000	200	250	17,000	17,500
Cheboygan	500	500	100	100	1,000	1,300
Crawford	—	—	—	—	—	—
Iosco	2,400	1,900	400	500	—	—
Montmorency	300	300	—	100	—	—
Ogemaw	600	900	200	250	1,000	1,000
Oscoda	—	100	—	—	—	—
Otsego	400	300	—	—	—	—
Presque Isle	600	1,000	250	300	2,500	2,500
Roscommon	—	100	—	—	—	—
NORTHEAST (3)	7,000	7,000	1,400	1,700	52,000	46,000
Lake	600	600	100	100	2,000	3,000
Mason	1,400	2,000	500	700	13,000	13,000
Muskegon	4,100	4,900	1,000	1,400	2,000	3,000
Newaygo	7,200	8,000	1,900	2,500	225,000	153,000
Oceana	8,700	9,000	1,800	2,100	48,000	59,000
WEST CENTRAL (4)	22,000	24,500	5,300	6,800	290,000	231,000
Clare	9,300	9,800	1,700	1,800	—	1,000
Gladwin	2,400	3,000	600	700	3,000	3,000
Gratiot	21,500	21,000	3,100	3,700	108,000	147,000

Hogs and Pigs, Chickens: December 1, 1984-85

DISTRICT AND COUNTY	All Hogs and Pigs		Sows Farrowed		Hens and Pullets of Laying Age	
	1985	1984	1985	1984	1985	1984
	Head				*Birds*	
Isabella	18,500	24,500	3,000	4,000	180,000	78,000
Mecosta	4,200	4,500	900	1,100	3,000	3,000
Midland	4,600	5,200	1,000	1,300	1,200	1,500
Montcalm	16,000	14,000	2,400	2,900	7,000	7,500
Osceola	3,000	4,000	800	1,000	17,000	15,000
CENTRAL (5)	79,500	86,000	13,500	16,500	320,000	256,000
Arenac	6,500	3,500	1,000	600	6,000	7,000
Bay	2,500	3,500	500	600	5,000	6,000
Huron	48,000	47,000	6,700	7,200	1,080,000	1,150,000
Saginaw	10,000	10,000	1,300	1,400	18,000	27,000
Sanilac	11,000	14,000	2,500	3,000	11,000	16,000
Tuscola	22,000	22,000	3,000	3,700	355,000	325,000
EAST CENTRAL (6)	100,000	100,000	15,000	16,500	1,475,000	1,531,000
Allegan	85,000	115,000	13,500	18,500	775,000	880,000
Berrien	26,000	28,000	4,600	5,500	69,000	75,000
Cass	152,000	170,000	38,000	43,000	8,000	13,000
Kalamazoo	35,000	37,000	6,500	8,200	225,000	145,000
Kent	22,000	21,000	3,900	4,800	135,000	100,000
Ottawa	92,000	105,000	15,000	20,000	1,600,000	1,280,000
Van Buren	63,000	68,000	10,500	15,000	120,000	172,000
SOUTHWEST (7)	475,000	544,000	92,000	115,000	2,932,000	2,665,000
Barry	15,000	15,000	2,300	2,500	70,000	50,000
Branch	49,000	55,000	8,200	10,500	10,000	11,000
Calhoun	35,000	37,000	6,800	8,000	105,000	70,000
Clinton	23,000	30,000	5,300	6,500	10,000	13,000
Eaton	20,000	22,000	3,300	3,700	45,000	47,000
Hillsdale	43,000	44,000	7,000	8,500	95,000	70,000
Ingham	29,000	30,000	4,200	4,500	65,000	70,000
Ionia	38,000	39,000	5,300	6,800	1,050,000	1,035,000
Jackson	29,000	22,000	3,700	3,000	18,000	15,000
St. Joseph	55,000	60,000	10,500	13,000	55,000	24,000
Shiawassee	15,000	17,000	2,400	3,000	27,000	20,000
SOUTH CENTRAL (8)	351,000	371,000	59,000	70,000	1,550,000	1,425,000
Genesee	12,500	14,500	1,700	2,000	29,000	30,000
Lapeer	10,000	14,000	3,000	3,300	10,000	10,000
Lenawee	45,000	47,000	7,000	8,500	28,000	32,000
Livingston	7,100	7,200	1,400	1,400	6,000	8,000
Macomb	7,800	7,700	1,000	1,500	10,000	27,000
Monroe	22,000	27,000	3,300	4,000	105,000	115,000
Oakland	1,500	2,000	400	500	2,000	3,000
St. Clair	4,900	4,800	1,100	1,200	75,000	100,000
Washtenaw	21,500	29,000	4,500	5,500	30,000	33,000
Wayne	700	800	100	100	10,000	12,000
SOUTHEAST (9)	133,000	154,000	23,500	28,000	305,000	370,000
STATE	1,190,000	1,310,000	214,000	260,000	7,100,000	6,700,000

CORN: Acreage, Yield, Production, 1985

DISTRICT AND COUNTY	Planted All Purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	Acres	*Acres*	*Bushels*		*Acres*		*Tons*
Alger	—	—	—	—	—	—	—
Baraga	—	—	—	—	—	—	—
Chippewa	—	—	—	—	—	—	—
Delta	2,500	700	92.3	64,600	1,650	13.3	22,000
Dickinson	1,800	700	87.1	61,000	1,000	10.0	10,000
Gogebic	—	—	—	—	—	—	—
Houghton	—	—	—	—	—	—	—
Iron	—	—	—	—	—	—	—
Keweenaw	—	—	—	—	—	—	—
Luce	—	—	—	—	—	—	—
Mackinac	700	50	90.0	4,500	600	12.0	7,200
Marquette	—	—	—	—	—	—	—
Menominee	12,800	5,800	87.8	509,000	6,450	11.8	76,000
Ontonagon	—	—	—	—	—	—	—
Schoolcraft	—	—	—	—	—	—	—
UPPER PENINSULA (1)	20,000	8,000	88.0	704,000	11,000	11.9	131,000
Antrim	7,400	4,400	80.5	354,000	2,750	10.3	28,300
Benzie	1,700	600	78.3	47,000	1,000	11.6	11,600
Charlevoix	5,000	2,800	82.9	232,000	2,050	12.6	25,800
Emmet	3,000	1,200	80.8	97,000	1,700	13.2	22,500
Grand Traverse	9,500	6,500	80.0	520,000	2,650	10.0	26,500
Kalkaska	2,400	1,700	80.6	137,000	650	12.3	8,000
Leelanau	5,600	3,800	82.4	313,000	1,650	12.7	21,000
Manistee	3,200	2,200	66.8	147,000	850	11.3	9,600
Missaukee	14,800	6,000	87.7	526,000	8,300	11.6	96,200
Wexford	5,400	3,800	78.4	298,000	1,400	10.4	14,500
NORTHWEST (2)	58,000	33,000	80.9	2,671,000	23,000	11.5	264,000
Alcona	2,200	1,200	71.0	85,200	900	10.0	9,000
Alpena	6,900	3,800	71.6	272,000	2,800	11.0	30,800
Cheboygan	2,100	900	77.8	70,000	1,050	10.0	10,500
Crawford	—	—	—	—	—	—	—
Iosco	9,100	6,100	90.8	554,000	2,600	11.0	28,500
Montmorency	2,700	1,520	73.7	112,000	1,030	9.2	9,500
Ogemaw	11,000	5,000	80.6	403,000	5,500	9.4	51,800
Oscoda	1,750	750	74.4	55,800	900	11.1	10,000
Otsego	2,200	1,100	75.3	82,800	1,000	10.3	10,300
Presque Isle	4,000	1,600	70.6	113,000	2,200	12.5	27,400
Roscommon	—	—	—	—	—	—	—
NORTHEAST (3)	42,000	22,000	79.5	1,750,000	18,000	10.4	188,000
Lake	1,400	900	77.8	70,000	400	11.0	4,400
Mason	14,000	11,000	83.8	922,000	2,400	13.1	31,500
Muskegon	23,000	17,600	98.0	1,725,000	4,400	14.3	63,100
Newaygo	27,000	21,100	85.0	1,794,000	4,800	11.8	56,800
Oceana	14,600	11,400	87.5	998,000	2,500	11.3	28,200
WEST CENTRAL (4)	80,000	62,000	88.9	5,509,000	14,500	12.7	184,000
Clare	10,000	6,100	80.2	489,000	3,800	12.7	48,300
Gladwin	12,000	10,000	85.0	850,000	1,900	14.2	27,000
Gratiot	89,000	81,700	127.0	10,375,000	6,500	15.4	100,000

CORN: Acreage, Yield, Production, 1985

DISTRICT AND COUNTY	Planted All Purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	Acres	*Acres*		*Bushels*	*Acres*		*Tons*
Isabella	64,000	49,900	99.0	4,940,000	13,400	13.7	183,000
Mecosta	21,000	17,200	83.0	1,428,000	3,600	10.5	37,700
Midland	27,000	24,800	115.0	2,852,000	1,950	14.9	29,100
Montcalm	66,000	60,700	97.0	5,888,000	4,650	12.6	58,700
Osceola	11,000	6,600	80.0	528,000	4,200	10.3	43,200
CENTRAL (5)	300,000	257,000	106.4	27,350,000	40,000	13.2	527,000
Arenac	21,000	18,200	97.3	1,770,000	2,600	11.8	30,600
Bay	57,000	55,500	117.8	6,538,000	1,150	14.3	16,400
Huron	155,000	128,000	113.1	14,472,000	25,900	15.6	403,000
Saginaw	82,000	78,100	107.7	8,415,000	3,300	13.1	43,100
Sanilac	130,000	100,800	96.3	9,710,000	28,200	12.8	362,000
Tuscola	115,000	108,400	105.0	11,381,000	5,850	15.2	88,900
EAST CENTRAL (6)	560,000	489,000	106.9	52,286,000	67,000	14.1	944,000
Allegan	104,000	90,000	98.1	8,831,000	13,000	11.5	150,000
Berrien	52,000	50,400	102.2	5,149,000	1,050	12.1	12,700
Cass	84,000	81,800	88.1	7,204,000	1,400	11.6	16,300
Kalamazoo	66,000	61,600	90.0	5,542,000	3,650	13.4	49,000
Kent	66,000	55,700	97.4	5,425,000	9,650	12.0	116,000
Ottawa	64,000	52,300	103.0	5,387,000	11,000	12.5	138,000
Van Buren	54,000	52,200	103.0	5,377,000	1,250	12.8	16,000
SOUTHWEST (7)	490,000	444,000	96.7	42,915,000	41,000	12.1	498,000
Barry	52,000	46,000	101.9	4,688,000	5,700	13.2	75,000
Branch	110,000	105,000	104.1	10,928,000	4,350	15.5	67,600
Calhoun	107,000	100,600	92.4	9,292,000	5,850	14.9	87,200
Clinton	74,000	63,500	117.0	7,430,000	10,100	16.5	167,000
Eaton	84,000	78,700	116.1	9,141,000	4,900	15.8	77,200
Hillsdale	116,000	108,100	115.7	12,507,000	7,250	16.1	117,000
Ingham	83,000	74,200	106.4	7,894,000	8,200	14.1	116,000
Ionia	83,000	74,000	109.4	8,092,000	8,500	15.1	128,000
Jackson	96,000	87,200	100.3	8,743,000	8,300	14.9	124,000
St. Joseph	110,000	106,400	106.2	11,295,000	3,000	13.1	39,400
Shiawassee	60,000	53,300	96.6	5,148,000	6,350	12.7	80,600
SOUTH CENTRAL (8)	975,000	897,000	106.1	95,158,000	72,500	14.9	1,079,000
Genesee	56,000	50,000	105.4	5,272,000	5,600	14.9	83,300
Lapeer	74,000	61,100	103.6	6,331,000	12,450	14.4	179,000
Lenawee	138,000	129,000	125.0	16,127,000	8,200	16.5	135,000
Livingston	49,000	42,000	102.1	4,288,000	6,500	14.6	95,000
Macomb	21,000	17,900	105.2	1,883,000	2,900	14.8	42,800
Monroe	84,000	80,700	121.0	9,765,000	2,750	14.7	40,500
Oakland	17,000	15,900	108.0	1,717,000	950	12.9	12,300
St. Clair	48,000	41,200	97.5	4,015,000	6,450	13.3	86,000
Washtenaw	80,000	72,500	110.7	8,023,000	6,950	14.1	98,000
Wayne	8,000	7,700	115.1	886,000	250	12.4	3,100
SOUTHEAST (9)	575,000	518,000	112.6	58,307,000	53,000	14.6	775,000
STATE	3,100,000	2,730,000	105.0	286,650,000	340,000	13.5	4,590,000

CORN: Acreage, Yield, Production, 1984

DISTRICT AND COUNTY	Planted All Purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	Acres	*Acres*		*Bushels*	*Acres*		*Tons*
Alger	550	200	80.0	16,000	330	10.3	3,400
Baraga	—	—	—	—	—	—	—
Chippewa	600	480	74.0	35,500	100	12.0	1,200
Delta	2,400	570	77.9	44,400	1,700	11.8	20,000
Dickinson	1,600	460	78.0	35,900	1,100	10.3	11,300
Gogebic	—	—	—	—	—	—	—
Houghton	—	—	—	—	—	—	—
Iron	—	—	—	—	—	—	—
Keweenaw	—	—	—	—	—	—	—
Luce	—	—	—	—	—	—	—
Mackinac	900	110	71.8	7,900	760	12.2	9,300
Marquette	—	—	—	—	—	—	—
Menominee	12,500	6,530	90.0	588,000	5,800	11.2	65,000
Ontonagon	—	—	—	—	—	—	—
Schoolcraft	—	—	—	—	—	—	—
UPPER PENINSULA (1)	20,000	8,800	86.4	760,000	10,700	11.2	120,000
Antrim	6,500	3,380	96.2	325,000	3,000	12.3	37,000
Benzie	1,600	390	70.3	27,400	1,100	11.3	12,400
Charlevoix	4,400	2,110	91.9	194,000	2,100	12.7	26,600
Emmet	2,900	720	80.0	57,600	2,000	13.6	27,100
Grand Traverse	9,700	6,560	74.1	486,000	3,000	10.1	30,200
Kalkaska	2,500	1,550	81.9	127,000	800	11.1	8,900
Leelanau	5,800	3,460	91.9	318,000	2,300	11.3	26,000
Manistee	3,000	1,650	67.3	111,000	1,300	9.0	11,700
Missaukee	13,500	4,330	78.1	338,000	9,000	10.8	97,300
Wexford	5,100	3,950	82.0	324,000	1,000	9.8	9,800
NORTHWEST (2)	55,000	28,100	82.1	2,308,000	25,600	11.2	287,000
Alcona	2,700	1,870	84.0	157,000	700	12.3	8,600
Alpena	6,600	3,950	86.1	340,000	2,400	10.8	25,900
Cheboygan	2,200	800	86.3	69,000	1,200	13.4	16,100
Crawford	—	—	—	—	—	—	—
Iosco	9,900	6,650	94.7	630,000	3,000	11.0	33,000
Montmorency	2,500	1,600	68.8	110,000	800	10.3	8,200
Ogemaw	10,800	4,350	74.0	322,000	6,100	8.9	54,000
Oscoda	1,850	960	68.8	66,000	780	12.3	9,600
Otsego	2,400	1,240	88.7	110,000	1,000	10.5	10,500
Presque Isle	4,000	1,350	94.1	127,000	2,500	12.4	30,900
Roscommon	—	—	—	—	—	—	—
NORTHEAST (3)	43,000	22,800	84.8	1,933,000	18,500	10.6	197,000
Lake	1,500	860	60.5	52,000	600	8.2	4,900
Mason	14,000	11,750	80.0	940,000	2,100	9.2	19,400
Muskegon	23,000	17,000	83.2	1,415,000	5,700	11.0	62,700
Newaygo	28,500	23,340	76.0	1,775,000	4,800	12.9	62,000
Oceana	15,000	11,350	60.8	690,000	3,500	9.1	32,000
WEST CENTRAL (4)	82,000	64,300	75.8	4,872,000	16,700	10.8	181,000
Clare	10,000	5,450	55.0	300,000	4,400	7.2	31,700
Gladwin	13,000	10,850	63.7	691,000	2,000	6.8	13,500
Gratiot	88,000	79,900	103.8	8,297,000	7,600	13.4	102,000

CORN: Acreage, Yield, Production, 1984

DISTRICT AND COUNTY	Planted All Purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	Acres	*Acres*		*Bushels*	*Acres*		*Tons*
Isabella	56,000	39,150	56.9	2,227,000	16,500	8.0	132,000
Mecosta	19,000	14,350	57.8	830,000	4,500	9.9	44,600
Midland	25,000	22,250	84.3	1,875,000	2,600	6.7	17,400
Montcalm	64,000	58,600	83.3	4,882,000	5,000	10.2	51,200
Osceola	10,000	5,350	72.5	388,000	4,500	8.1	36,600
CENTRAL (5)	285,000	235,900	82.6	19,490,000	47,100	9.1	429,000
Arenac	20,000	16,700	72.8	1,216,000	3,000	10.3	30,900
Bay	55,000	53,300	85.3	4,545,000	1,400	9.2	12,900
Huron	160,000	126,700	106.0	13,426,000	32,000	11.3	360,000
Saginaw	77,000	71,900	102.0	7,331,000	4,600	14.2	65,100
Sanilac	130,000	94,900	103.9	9,864,000	34,000	13.2	449,000
Tuscola	118,000	110,500	111.7	12,345,000	6,500	12.8	83,000
EAST CENTRAL (6)	560,000	474,000	102.8	48,727,000	81,500	12.3	1,000,900
Allegan	96,000	79,400	73.5	5,836,000	15,500	10.5	162,000
Berrien	49,000	47,500	78.4	3,724,000	1,000	9.3	9,300
Cass	84,000	81,700	93.1	7,610,000	1,500	13.3	19,900
Kalamazoo	66,000	60,700	63.7	3,867,000	4,500	9.4	42,300
Kent	64,000	52,600	78.4	4,126,000	10,500	11.5	121,000
Ottawa	64,000	51,200	72.7	3,724,000	12,000	12.3	147,000
Van Buren	52,000	49,900	58.9	2,940,000	1,400	9.0	12,600
SOUTHWEST (7)	475,000	423,000	75.2	31,827,000	46,400	11.1	514,100
Barry	52,000	45,300	78.5	3,558,000	6,200	10.1	62,500
Branch	110,000	104,300	101.9	10,633,000	4,800	9.8	46,900
Calhoun	103,000	94,600	62.7	5,933,000	7,600	10.5	79,800
Clinton	77,000	64,350	84.3	5,424,000	12,000	13.8	166,000
Eaton	82,000	75,850	68.6	5,204,000	5,500	12.1	66,800
Hillsdale	114,000	102,950	75.5	7,769,000	10,000	10.4	104,000
Ingham	81,000	69,100	61.6	4,259,000	11,000	8.6	95,100
Ionia	83,000	72,900	78.4	5,716,000	9,500	11.3	107,000
Jackson	92,000	81,900	61.5	5,033,000	9,500	9.0	85,100
St. Joseph	113,000	108,900	90.4	9,849,000	3,500	13.4	46,800
Shiawassee	58,000	49,350	74.5	3,675,000	8,000	8.8	70,000
SOUTH CENTRAL (8)	965,000	869,500	77.1	67,053,000	87,600	10.6	930,000
Genesee	55,000	46,100	91.4	4,214,000	8,400	11.5	96,900
Lapeer	68,000	54,350	101.9	5,539,000	13,000	11.2	145,000
Lenawee	135,000	121,500	95.2	11,564,000	12,500	13.7	171,000
Livingston	48,000	39,750	61.0	2,426,000	7,500	9.6	71,800
Macomb	21,000	17,540	86.3	1,513,000	3,000	12.4	37,300
Monroe	82,000	78,400	103.9	8,144,000	3,000	13.5	40,600
Oakland	18,000	15,930	58.0	924,000	1,700	8.2	14,000
St. Clair	45,000	36,500	94.1	3,434,000	8,000	10.9	87,300
Washtenaw	86,000	76,900	61.8	4,754,000	8,500	8.8	74,400
Wayne	7,000	6,630	90.2	598,000	300	9.0	2,700
SOUTHEAST (9)	565,000	493,600	87.3	43,110,000	65,900	11.2	741,000
STATE	3,050,000	2,620,000	84.0	220,080,000	400,000	11.0	4,400,000

WHEAT: Acreage, Yield, Production, 1984-85

DISTRICT AND COUNTY	1985				1984			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		*Bushels*		*Acres*		*Bushels*	
Alger	—	—	—	—	—	—	—	—
Baraga	—	—	—	—	—	—	—	—
Chippewa	650	600	40.0	24,000	620	570	34.6	19,700
Delta	320	300	43.3	13,000	320	300	39.0	11,700
Dickinson	—	—	—	—	—	—	—	—
Gogebic	—	—	—	—	—	—	—	—
Houghton	—	—	—	—	—	—	—	—
Iron	150	150	36.0	5,400	160	130	34.6	4,500
Keweenaw	—	—	—	—	—	—	—	—
Luce	260	250	35.2	8,800	—	—	—	—
Mackinac	210	200	37.0	7,400	230	200	34.5	6,900
Marquette	—	—	—	—	—	—	—	—
Menominee	190	180	38.9	7,000	200	180	34.4	6,200
Ontonagon	—	—	—	—	—	—	—	—
Schoolcraft	—	—	—	—	—	—	—	—
UPPER PENINSULA (1)	1,900	1,800	38.9	70,000	1,700	1,500	35.3	53,000
Antrim	1,050	1,000	44.0	44,000	1,450	1,300	44.6	58,000
Benzie	350	350	44.3	15,500	300	270	44.4	12,000
Charlevoix	150	150	42.0	6,300	250	230	39.6	9,100
Emmet	100	100	42.0	4,200	100	80	41.3	3,300
Grand Traverse	1,550	1,500	46.7	70,000	1,800	1,600	41.6	66,600
Kalkaska	710	700	44.3	31,000	750	700	39.6	27,700
Leelanau	410	400	45.0	18,000	500	470	39.6	18,600
Manistee	410	400	45.0	18,000	500	450	39.6	17,800
Missaukee	970	950	44.2	42,000	900	850	46.0	39,100
Wexford	1,000	950	43.2	41,000	1,150	1,050	44.6	46,800
NORTHWEST (2)	6,700	6,500	44.6	290,000	7,700	7,000	42.7	299,000
Alcona	1,070	1,000	50.0	50,000	1,400	1,300	44.6	58,000
Alpena	1,950	1,800	49.4	89,000	3,200	2,900	37.6	109,000
Cheboygan	830	800	45.0	36,000	1,400	1,300	32.7	42,500
Crawford	—	—	—	—	—	—	—	—
Iosco	1,870	1,800	57.8	104,000	2,300	2,100	58.1	122,000
Montmorency	430	400	45.0	18,000	600	550	34.5	19,000
Ogemaw	1,580	1,500	54.0	81,000	1,600	1,500	51.3	77,000
Oscoda	—	—	—	—	50	50	38.0	1,900
Otsego	620	600	43.3	26,000	700	650	32.6	21,200
Presque Isle	1,450	1,400	50.7	71,000	2,300	2,100	41.6	87,400
Roscommon	60	60	51.7	3,100	50	50	40.0	2,000
NORTHEAST (3)	9,900	9,400	51.1	480,000	13,600	12,500	43.2	540,000
Lake	300	200	45.0	9,000	300	250	49.6	12,400
Mason	3,600	3,300	53.6	177,000	4,300	3,900	48.5	189,000
Muskegon	3,000	2,400	60.8	146,000	2,500	2,300	57.4	132,000
Newaygo	2,500	2,400	55.0	132,000	2,600	2,400	51.7	124,000
Oceana	2,100	2,000	53.0	106,000	2,300	2,150	47.7	102,600
WEST CENTRAL (4)	11,500	10,300	55.3	570,000	12,000	11,000	50.9	560,000
Clare	3,300	3,200	43.8	140,000	2,500	2,200	42.6	93,800
Gladwin	5,200	5,000	54.4	272,000	4,500	4,000	50.5	202,000
Gratiot	32,400	32,000	67.7	2,165,000	27,000	24,000	61.5	1,476,000

WHEAT: Acreage, Yield, Production, 1984-85

DISTRICT AND COUNTY	1985				1984			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		*Bushels*		*Acres*		*Bushels*	
Isabella	17,500	17,000	59.0	1,003,000	18,000	16,000	61.5	984,000
Mecosta	4,500	4,400	42.7	188,000	5,000	4,500	50.4	227,000
Midland	6,600	6,500	67.4	438,000	6,300	5,800	58.4	339,000
Montcalm	23,500	22,000	47.4	1,043,000	25,000	22,000	55.5	1,222,000
Osceola	2,000	1,900	42.6	81,000	1,700	1,500	43.5	65,200
CENTRAL (5)	95,000	92,000	57.9	5,330,000	90,000	80,000	57.6	4,609,000
Arenac	7,200	7,000	64.3	450,000	7,000	6,000	51.5	309,000
Bay	11,300	11,000	71.4	785,000	13,000	11,500	63.5	730,000
Huron	51,000	50,000	71.6	3,580,000	52,000	45,000	62.5	2,812,000
Saginaw	33,500	33,000	70.6	2,330,000	38,000	34,500	66.5	2,293,000
Sanilac	39,500	39,000	61.9	2,415,000	48,000	42,000	61.5	2,583,000
Tuscola	35,500	35,000	71.1	2,490,000	47,000	41,000	67.4	2,765,000
EAST CENTRAL (6)	178,000	175,000	68.9	12,050,000	205,000	180,000	63.8	11,492,000
Allegan	11,000	10,400	61.1	635,000	14,000	12,500	52.6	657,000
Berrien	8,500	8,200	47.1	386,000	13,000	11,800	47.5	561,000
Cass	9,500	9,200	44.5	409,000	13,000	11,800	44.8	529,000
Kalamazoo	14,500	14,000	48.3	676,000	19,000	16,000	54.5	872,000
Kent	10,000	9,800	56.9	558,000	13,000	11,600	55.5	644,000
Ottawa	7,500	6,700	58.2	390,000	8,000	7,100	50.6	359,000
Van Buren	4,000	3,700	53.0	196,000	5,000	4,200	47.4	199,000
SOUTHWEST (7)	65,000	62,000	52.4	3,250,000	85,000	75,000	50.9	3,821,000
Barry	13,300	13,000	58.1	755,000	17,000	15,500	58.5	907,000
Branch	15,700	15,000	45.0	675,000	18,000	16,500	50.5	834,000
Calhoun	24,500	24,000	52.7	1,265,000	26,000	23,500	55.5	1,305,000
Clinton	34,500	34,000	67.2	2,285,000	42,000	36,500	57.5	2,100,000
Eaton	28,000	27,500	58.7	1,615,000	36,000	31,500	59.5	1,874,000
Hillsdale	16,700	16,500	49.8	822,000	25,000	22,500	51.6	1,160,000
Ingham	22,500	22,000	66.4	1,460,000	26,000	23,500	59.5	1,398,000
Ionia	31,000	30,000	62.7	1,880,000	35,000	30,500	62.5	1,906,000
Jackson	15,200	15,000	53.3	800,000	16,000	14,500	53.5	776,000
St. Joseph	9,600	9,500	46.6	443,000	15,000	13,500	50.5	682,000
Shiawassee	29,000	28,500	63.2	1,800,000	34,000	30,000	60.5	1,815,000
SOUTH CENTRAL (8)	240,000	235,000	58.7	13,800,000	290,000	258,000	57.2	14,757,000
Genesee	15,300	15,000	60.0	900,000	19,000	17,000	57.5	978,000
Lapeer	17,500	17,000	62.9	1,070,000	18,000	16,000	58.5	936,000
Lenawee	40,000	39,000	56.1	2,187,000	53,000	48,000	58.5	2,809,000
Livingston	9,800	9,500	57.5	546,000	10,500	9,400	57.4	540,000
Macomb	5,700	5,500	47.1	259,000	7,500	6,600	40.6	268,000
Monroe	23,500	23,000	58.0	1,333,000	32,000	29,000	47.6	1,380,000
Oakland	3,600	3,500	58.3	204,000	4,500	4,100	52.4	215,000
St. Clair	16,500	16,000	58.4	934,000	21,000	18,700	50.6	946,000
Washtenaw	28,500	28,000	59.3	1,660,000	27,000	24,000	54.5	1,309,000
Wayne	1,600	1,500	44.7	67,000	2,500	2,200	40.0	88,000
SOUTHEAST (9)	162,000	158,000	58.0	9,160,000	195,000	175,000	54.1	9,469,000
STATE	770,000	750,000	60.0	45,000,000	900,000	800,000	57.0	45,600,000

SOYBEANS: Acreage, Yield, Production, 1984-85

DISTRICT AND COUNTY	1985				1984			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		*Bushels*		*Acres*		*Bushels*	
Alger	—	—	—	—	—	—	—	—
Baraga	—	—	—	—	—	—	—	—
Chippewa	—	—	—	—	—	—	—	—
Delta	300	290	29.0	8,400	270	260	28.8	7,500
Dickinson	—	—	—	—	—	—	—	—
Gogebic	—	—	—	—	—	—	—	—
Houghton	—	—	—	—	—	—	—	—
Iron	—	—	—	—	—	—	—	—
Keweenaw	—	—	—	—	—	—	—	—
Luce	—	—	—	—	—	—	—	—
Mackinac	—	—	—	—	—	—	—	—
Marquette	—	—	—	—	—	—	—	—
Menominee	50	50	30.0	1,500	80	80	27.5	2,200
Ontonagon	—	—	—	—	—	—	—	—
Schoolcraft	60	60	31.7	1,900	60	60	26.7	1,600
UPPER PENINSULA (1)	450	440	29.5	13,000	450	440	28.2	12,400
Antrim	—	—	—	—	—	—	—	—
Benzie	—	—	—	—	—	—	—	—
Charlevoix	—	—	—	—	—	—	—	—
Emmet	—	—	—	—	—	—	—	—
Grand Traverse	70	70	28.6	2,000	70	70	28.6	2,000
Kalkaska	90	90	28.9	2,600	100	100	28.0	2,800
Leelanau	—	—	—	—	—	—	—	—
Manistee	200	190	28.9	5,500	260	250	27.6	6,900
Missaukee	—	—	—	—	—	—	—	—
Wexford	—	—	—	—	50	50	28.0	1,400
NORTHWEST (2)	450	440	29.1	12,800	550	540	28.0	15,100
Alcona	100	100	29.0	2,900	200	190	29.5	5,600
Alpena	100	100	29.0	2,900	300	280	30.4	8,500
Cheboygan	100	100	29.0	2,900	100	100	29.0	2,900
Crawford	—	—	—	—	—	—	—	—
Iosco	400	380	28.9	11,000	700	660	30.5	20,100
Montmorency	100	100	30.0	3,000	50	50	30.0	1,500
Ogemaw	200	190	29.5	5,600	400	370	29.7	11,000
Oscoda	—	—	—	—	—	—	—	—
Otsego	—	—	—	—	—	—	—	—
Presque Isle	100	100	29.0	2,900	150	150	29.3	4,400
Roscommon	—	—	—	—	—	—	—	—
NORTHEAST (3)	1,100	1,070	29.2	31,200	1,900	1,800	30.0	54,000
Lake	—	—	—	—	—	—	—	—
Mason	600	590	27.1	16,000	250	240	29.2	7,000
Muskegon	1,000	970	28.5	27,600	650	610	28.2	17,200
Newaygo	300	290	26.6	7,700	290	270	27.4	7,400
Oceana	90	90	27.2	2,450	100	90	28.9	2,600
WEST CENTRAL (4)	2,000	1,950	27.7	54,000	1,300	1,220	28.3	34,500
Clare	200	200	28.0	5,600	700	670	26.4	17,700
Gladwin	1,200	1,150	29.6	34,000	2,200	2,150	26.3	56,500
Gratiot	68,000	66,000	34.5	2,276,000	72,000	71,300	32.4	2,310,000

SOYBEANS: Acreage, Yield, Production, 1984-85

DISTRICT AND COUNTY	1985				1984			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		*Bushels*		*Acres*		*Bushels*	
Isabella	15,000	14,500	24.8	360,000	16,500	16,300	24.4	397,000
Mecosta	100	100	26.0	2,600	200	190	25.3	4,800
Midland	16,000	15,700	31.8	499,000	18,000	17,800	27.6	492,000
Montcalm	9,400	9,250	28.1	260,000	9,500	9,400	26.0	244,000
Osceola	100	100	28.0	2,800	200	190	26.3	5,000
CENTRAL (5)	110,000	107,000	32.1	3,440,000	119,300	118,000	29.9	3,527,000
Arenac	9,500	9,100	26.0	237,000	11,000	10,900	26.6	290,000
Bay	18,000	17,800	31.3	558,000	24,000	23,800	27.5	655,000
Huron	6,500	6,200	26.0	161,000	10,000	9,900	28.6	283,000
Saginaw	120,000	118,000	30.2	3,558,000	126,000	125,000	30.7	3,840,000
Sanilac	42,000	41,200	25.3	1,042,000	43,000	42,600	26.3	1,119,000
Tuscola	25,000	24,700	30.6	756,000	26,000	25,800	28.2	728,000
EAST CENTRAL (6)	221,000	217,000	29.1	6,312,000	240,000	238,000	29.1	6,915,000
Allegan	7,000	6,900	34.1	235,000	8,000	7,900	23.8	188,000
Berrien	26,000	25,800	34.5	891,000	29,000	28,700	21.2	609,000
Cass	25,000	24,700	30.9	763,000	29,000	28,700	22.4	642,000
Kalamazoo	26,000	25,800	31.3	808,000	28,500	28,100	20.0	562,000
Kent	3,000	3,000	29.2	87,500	3,500	3,450	25.8	89,000
Ottawa	1,000	1,000	33.5	33,500	1,500	1,450	28.3	41,000
Van Buren	11,000	10,900	30.9	337,000	15,000	14,700	20.4	300,000
SOUTHWEST (7)	99,000	98,100	32.2	3,155,000	114,500	113,000	21.5	2,431,000
Barry	11,000	10,900	33.9	370,000	12,000	11,900	23.4	278,000
Branch	40,000	39,500	31.9	1,259,000	47,000	46,700	25.5	1,191,000
Calhoun	25,000	24,600	27.4	673,000	27,000	26,900	21.0	565,000
Clinton	52,000	51,000	31.7	1,617,000	61,000	60,500	27.2	1,648,000
Eaton	29,000	28,700	35.0	1,005,000	29,000	28,800	20.5	590,000
Hillsdale	41,000	40,300	30.8	1,243,000	38,500	38,200	26.2	1,000,000
Ingham	23,000	22,800	32.1	733,000	26,500	26,400	21.5	568,000
Ionia	23,000	22,300	33.6	750,000	26,000	25,900	27.0	699,000
Jackson	8,000	7,600	30.7	233,000	8,000	7,900	20.5	162,000
St. Joseph	31,000	30,300	31.5	954,000	37,000	36,800	21.5	791,000
Shiawassee	63,000	62,000	28.1	1,745,000	64,000	63,500	25.5	1,619,000
SOUTH CENTRAL (8)	346,000	340,000	31.1	10,582,000	376,000	373,500	24.4	9,111,000
Genesee	29,000	28,500	28.0	798,000	32,000	31,800	24.8	789,000
Lapeer	8,500	8,000	28.3	226,000	10,000	9,900	26.3	260,000
Lenawee	105,000	104,000	39.5	4,108,000	102,000	101,400	33.5	3,400,000
Livingston	5,300	5,200	32.9	171,000	6,000	5,900	22.9	135,000
Macomb	23,000	22,700	31.3	710,000	25,000	24,800	26.3	652,000
Monroe	80,000	78,800	36.6	2,882,000	92,000	91,500	31.7	2,903,000
Oakland	700	700	31.4	22,000	1,200	1,100	24.5	27,000
St. Clair	41,000	39,300	28.1	1,104,000	45,000	44,700	25.7	1,148,000
Washtenaw	18,000	17,400	33.9	589,000	22,000	21,700	21.5	466,000
Wayne	9,500	9,400	37.2	350,000	10,800	10,700	23.4	250,000
SOUTHEAST (9)	320,000	314,000	34.9	10,960,000	346,000	343,500	29.2	10,030,000
STATE	1,100,000	1,080,000	32.0	34,560,000	1,200,000	1,190,000	27.0	32,130,000

OATS: Acreage, Yield, Production, 1984-85

DISTRICT AND COUNTY	1985				1984			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		*Bushels*		*Acres*		*Bushels*	
Alger	200	180	54.4	9,800	300	270	33.3	9,000
Baraga	600	550	50.4	27,700	500	460	30.4	14,000
Chippewa	3,700	3,500	48.9	171,100	4,500	4,100	38.8	159,000
Delta	3,700	3,500	60.0	210,000	3,500	3,300	57.6	190,000
Dickinson	600	550	50.0	27,500	900	850	49.4	42,000
Gogebic	300	250	51.2	12,800	200	180	44.4	8,000
Houghton	1,900	1,800	52.1	93,700	1,600	1,500	43.3	65,000
Iron	800	700	63.0	44,100	900	840	50.0	42,000
Keweenaw	—	—	—	—	—	—	—	—
Luce	300	270	50.0	13,500	300	270	40.7	11,000
Mackinac	1,000	950	47.1	44,700	1,100	1,030	43.7	45,000
Marquette	500	450	50.4	22,700	700	650	40.0	26,000
Menominee	3,700	3,300	51.2	169,000	4,600	4,300	51.9	223,000
Ontonagon	1,000	900	56.0	50,400	1,300	1,200	35.0	42,000
Schoolcraft	700	600	50.0	30,000	600	550	36.4	20,000
UPPER PENINSULA (1)	19,000	17,500	53.0	927,000	21,000	19,500	45.9	896,000
Antrim	1,700	1,500	49.6	74,400	1,400	1,350	61.5	83,000
Benzie	50	40	50.0	2,000	100	90	44.4	4,000
Charlevoix	500	430	50.0	21,500	900	870	40.2	35,000
Emmet	1,600	1,300	45.0	58,500	1,400	1,350	49.6	67,000
Grand Traverse	1,100	1,000	44.7	44,700	1,200	1,160	56.0	65,000
Kalkaska	250	200	51.5	10,300	200	190	42.1	8,000
Leelanau	800	700	54.0	37,800	900	860	59.3	51,000
Manistee	400	330	50.6	16,700	500	470	46.8	22,000
Missaukee	4,300	3,900	52.0	202,800	4,200	4,000	56.3	225,000
Wexford	1,300	1,100	43.0	47,300	1,200	1,160	44.8	52,000
NORTHWEST (2)	12,000	10,500	49.1	516,000	12,000	11,500	53.2	612,000
Alcona	2,500	2,230	73.1	163,000	2,200	2,080	59.6	124,000
Alpena	9,000	8,600	53.1	457,000	9,100	8,700	57.7	502,000
Cheboygan	1,200	1,000	52.5	52,500	1,400	1,330	50.4	67,000
Crawford	100	90	62.2	5,600	100	90	44.4	4,000
Iosco	2,700	2,400	70.4	169,000	2,400	2,250	80.0	180,000
Montmorency	2,200	2,000	51.0	102,000	2,200	2,100	57.1	120,000
Ogemaw	4,200	4,000	70.5	282,000	4,300	4,100	61.5	252,000
Oscoda	100	90	63.3	5,700	200	180	50.0	9,000
Otsego	2,000	1,900	49.1	93,200	2,000	1,880	59.6	112,000
Presque Isle	7,900	7,600	49.1	373,000	8,000	7,700	65.6	505,000
Roscommon	100	90	55.6	5,000	100	90	44.4	4,000
NORTHEAST (3)	32,000	30,000	56.9	1,708,000	32,000	30,500	61.6	1,879,000
Lake	600	500	55.4	27,700	600	580	50.0	29,000
Mason	4,000	3,700	52.0	192,400	3,000	2,800	58.9	165,000
Muskegon	1,800	1,600	71.0	113,600	1,800	1,700	47.6	81,000
Newaygo	3,400	3,100	47.0	145,700	2,800	2,650	46.4	123,000
Oceana	1,200	1,100	49.6	54,600	800	770	54.5	42,000
WEST CENTRAL (4)	11,000	10,000	53.4	534,000	9,000	8,500	51.8	440,000
Clare	3,300	3,000	45.0	135,000	2,900	2,750	61.8	170,000
Gladwin	4,000	3,600	63.0	226,800	3,200	3,000	72.7	218,000
Gratiot	10,200	9,200	63.8	587,000	7,800	7,500	69.3	520,000

OATS: Acreage, Yield, Production, 1984-85

DISTRICT AND COUNTY	1985				1984			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		*Bushels*		*Acres*		*Bushels*	
Isabella	11,900	10,500	61.2	643,100	9,000	8,500	63.5	540,000
Mecosta	4,100	3,800	47.0	178,600	3,100	2,950	49.5	146,000
Midland	2,100	1,900	65.5	124,500	1,800	1,700	52.9	90,000
Montcalm	8,900	8,000	56.1	449,000	9,200	8,800	63.6	560,000
Osceola	3,500	3,000	46.0	138,000	4,000	3,800	54.7	208,000
CENTRAL (5)	48,000	43,000	57.7	2,482,000	41,000	39,000	62.9	2,452,000
Arenac	3,700	3,400	69.4	236,000	3,500	3,200	69.4	222,000
Bay	1,800	1,600	71.9	115,000	1,500	1,400	66.4	93,000
Huron	22,000	20,000	80.8	1,615,000	25,000	23,500	82.0	1,926,000
Saginaw	7,500	7,000	71.7	502,000	7,000	6,600	68.0	449,000
Sanilac	42,000	39,000	77.1	3,006,000	33,000	31,000	70.0	2,170,000
Tuscola	12,000	11,000	76.4	840,000	13,000	12,300	72.4	890,000
EAST CENTRAL (6)	89,000	82,000	77.0	6,314,000	83,000	78,000	73.7	5,750,000
Allegan	7,300	7,000	58.3	408,000	7,500	7,000	56.7	397,000
Berrien	1,500	1,400	63.6	89,000	1,200	1,150	47.0	54,000
Cass	2,200	2,000	52.5	105,000	3,600	3,450	41.7	144,000
Kalamazoo	4,700	4,500	62.9	283,000	4,000	3,800	58.4	222,000
Kent	8,800	8,500	64.6	549,000	8,800	8,200	59.8	490,000
Ottawa	6,500	6,000	62.7	376,000	6,500	6,100	54.9	335,000
Van Buren	3,000	2,600	54.6	142,000	2,400	2,300	50.0	115,000
SOUTHWEST (7)	34,000	32,000	61.0	1,952,000	34,000	32,000	54.9	1,757,000
Barry	5,600	5,100	70.0	357,000	4,400	4,100	52.4	215,000
Branch	5,600	5,200	55.0	286,000	4,000	3,800	55.3	210,000
Calhoun	10,000	9,500	67.7	643,000	8,000	7,600	50.0	380,000
Clinton	11,600	11,000	77.5	852,000	9,800	9,300	62.0	577,000
Eaton	5,600	5,300	77.0	408,000	4,500	4,200	61.2	257,000
Hillsdale	7,100	6,800	66.6	453,000	5,700	5,400	55.6	300,000
Ingham	7,100	6,800	71.0	483,000	5,500	5,200	54.8	285,000
Ionia	13,600	13,000	64.5	839,000	10,200	9,700	71.6	695,000
Jackson	8,100	7,500	60.1	451,000	7,400	7,000	53.6	375,000
St. Joseph	2,600	2,300	53.5	123,000	1,800	1,700	42.4	72,000
Shiawassee	15,100	14,500	76.4	1,108,000	13,700	13,000	64.0	832,000
SOUTH CENTRAL (8)	92,000	87,000	69.0	6,003,000	75,000	71,000	59.1	4,198,000
Genesee	11,500	10,600	78.1	828,000	9,000	8,600	58.7	505,000
Lapeer	14,200	13,200	70.4	929,000	10,600	10,000	75.5	755,000
Lenawee	9,300	8,700	76.1	662,000	6,500	6,200	56.6	351,000
Livingston	4,000	3,800	64.7	246,000	4,500	4,300	49.5	213,000
Macomb	5,300	5,000	69.6	348,000	4,300	4,200	55.2	232,000
Monroe	5,200	5,000	74.0	370,000	4,800	4,600	73.3	337,000
Oakland	2,200	2,010	74.6	150,000	1,500	1,430	62.9	90,000
St. Clair	14,500	13,900	75.9	1,055,000	9,000	8,600	66.9	575,000
Washtenaw	16,500	15,500	70.1	1,086,000	12,500	11,800	54.7	645,000
Wayne	300	290	69.0	20,000	300	270	48.1	13,000
SOUTHEAST (9)	83,000	78,000	73.0	5,694,000	63,000	60,000	61.9	3,716,000
STATE	420,000	390,000	67.0	26,130,000	370,000	350,000	62.0	21,700,000

DRY BEANS: Acreage, Yield, Production, 1984-85

DISTRICT AND COUNTY	1985				1984			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		*Pounds*	*Cwt.*	*Acres*		*Pounds*	*Cwt.*
UPPER PENINSULA (1)	1,800	1,740	1,260	22,000	1,700	1,640	1,640	26,900
NORTHWEST (2)	1,900	1,800	1,390	25,000	2,000	1,900	1,350	25,600
NORTHEAST (3)	13,000	12,000	1,100	132,000	10,400	10,000	1,490	149,400
WEST CENTRAL (4)	500	460	1,300	6,000	500	460	1,150	5,300
Clare	—	—	—	—	—	—	—	—
Gladwin	2,700	2,500	1,340	33,500	2,700	2,600	920	23,800
Gratiot	44,000	43,000	1,500	645,000	37,000	36,300	1,090	395,200
Isabella	15,000	11,000	1,100	121,000	11,000	10,700	920	98,200
Mecosta	3,000	2,500	1,360	34,000	2,800	2,600	1,180	30,800
Midland	12,000	11,000	1,350	149,000	11,000	10,900	960	104,400
Montcalm	18,000	17,200	1,620	278,000	17,200	17,000	1,400	238,000
Osceola	—	—	—	—	—	—	—	—
CENTRAL (5)	95,000	87,500	1,450	1,265,000	82,000	80,400	1,110	893,200
Arenac	14,000	13,000	1,380	180,000	10,500	10,300	1,000	102,700
Bay	40,000	36,000	1,110	400,000	37,000	36,200	990	359,800
Huron	86,000	83,000	1,400	1,160,000	82,000	80,400	1,120	898,200
Saginaw	25,000	23,000	1,170	270,000	25,000	24,500	1,060	258,600
Sanilac	30,000	27,000	1,110	300,000	30,500	29,900	1,020	306,400
Tuscola	67,000	63,000	1,220	767,000	64,000	62,700	1,120	703,000
EAST CENTRAL (6)	262,000	245,000	1,260	3,077,000	249,000	244,000	1,080	2,628,700
Allegan	200	190	890	1,700	200	190	1,210	2,300
Berrien	200	190	890	1,700	200	190	1,210	2,300
Cass	—	—	—	—	—	—	—	—
Kalamazoo	—	—	—	—	—	—	—	—
Kent	1,600	1,530	910	13,900	1,500	1,430	1,220	17,500
Ottawa	200	190	890	1,700	200	190	1,210	2,300
Van Buren	—	—	—	—	—	—	—	—
SOUTHWEST (7)	2,300	2,200	910	20,000	2,200	2,100	1,210	25,500
Barry	1,500	1,450	1,520	22,000	1,700	1,650	1,080	17,800
Branch	—	—	—	—	—	—	—	—
Calhoun	—	—	—	—	—	—	—	—
Clinton	13,000	12,700	1,500	190,000	7,000	6,400	1,320	84,300
Eaton	16,000	15,800	1,580	250,000	15,000	13,600	900	122,800
Hillsdale	—	—	—	—	—	—	—	—
Ingham	2,500	2,450	1,310	32,000	2,100	2,050	890	18,300
Ionia	11,000	10,800	1,480	160,000	10,000	9,800	1,180	115,200
Jackson	200	200	1,500	3,000	—	—	—	—
St. Joseph	—	—	—	—	—	—	—	—
Shiawassee	3,500	3,100	1,240	38,500	2,500	2,400	1,120	26,900
SOUTH CENTRAL (8)	48,000	46,800	1,500	700,000	38,700	36,300	1,070	389,200
Genesee	1,200	800	1,000	8,000	800	790	1,040	8,200
Lapeer	9,000	7,800	1,410	110,000	7,800	7,600	1,130	85,800
Lenawee	400	350	1,140	4,000	400	390	1,210	4,700
Livingston	360	300	1,170	3,500	400	390	1,030	4,000
Macomb	1,400	1,110	1,130	12,500	960	940	1,050	9,900
St. Clair	3,000	2,000	1,250	25,000	3,000	2,950	1,090	32,100
SOUTHEAST (9)	15,500	12,500	1,320	165,000	13,500	13,200	1,110	146,200
STATE	440,000	410,000	1,320	5,412,000	400,000	390,000	1,100	4,290,000

SUGARBEETS: Acreage, Yield, Production, 1984-85

DISTRICT AND COUNTY	1985				1984			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		*Tons*		*Acres*		*Tons*	
UPPER PENINSULA (1)	—	—	—	—	—	—	—	—
NORTHWEST (2)	—	—	—	—	—	—	—	—
NORTHEAST (3)	210	190	13.2	2,500	—	—	—	—
WEST CENTRAL (4)	—	—	—	—	—	—	—	—
Clare	—	—	—	—	—	—	—	—
Gladwin	590	560	20.0	11,200	550	520	16.0	8,300
Gratiot	5,550	4,900	20.4	100,000	5,100	5,100	20.6	105,000
Isabella	—	—	—	—	—	—	—	—
Midland	2,900	2,600	18.0	46,900	3,200	3,180	16.1	51,300
Montcalm	—	—	—	—	—	—	—	—
CENTRAL (5)	9,100	8,120	19.6	159,000	8,950	8,900	18.7	166,600
Arenac	3,900	3,800	19.2	73,000	2,300	2,200	18.6	41,000
Bay	22,800	21,400	19.2	410,000	18,500	18,200	18.2	331,000
Huron	25,100	25,000	20.6	515,000	21,600	21,500	20.1	432,000
Saginaw	16,800	15,600	20.8	324,000	15,000	14,600	20.5	299,000
Sanilac	11,200	10,700	18.8	201,000	11,900	11,500	18.0	207,000
Tuscola	27,400	27,100	20.0	541,000	24,300	24,000	21.3	510,000
EAST CENTRAL (6)	107,200	103,600	19.9	2,064,000	93,600	92,000	19.8	1,820,000
SOUTHWEST (7)	—	—	—	—	—	—	—	—
Barry	—	—	—	—	—	—	—	—
Branch	—	—	—	—	—	—	—	—
Calhoun	—	—	—	—	—	—	—	—
Clinton	—	—	—	—	—	—	—	—
Eaton	—	—	—	—	—	—	—	—
Ingham	—	—	—	—	—	—	—	—
Ionia	—	—	—	—	—	—	—	—
Jackson	—	—	—	—	—	—	—	—
St. Joseph	—	—	—	—	—	—	—	—
Shiawassee	—	—	—	—	—	—	—	—
SOUTH CENTRAL (8)	290	280	23.2	6,500	260	250	17.6	4,400
Genesee	—	—	—	—	—	—	—	—
Lapeer	—	—	—	—	—	—	—	—
Lenawee	3,500	2,700	16.0	43,100	3,600	3,500	18.7	65,400
Livingston	—	—	—	—	—	—	—	—
Macomb	—	—	—	—	—	—	—	—
Monroe	2,500	2,000	14 7	29,400	2,650	2,410	18.4	44,400
Oakland	—	—	—	—	—	—	—	—
St Clair	950	900	17.9	16,100	820	820	17.7	14,500
SOUTHEAST (9)	7,200	5,810	16.0	93,000	7,190	6,850	18.4	126,000
STATE	124,000	118,000	19.7	2,325,000	110,000	108,000	19.6	2,117,000

BARLEY: Acreage, Yield, Production, 1984-85

DISTRICT AND COUNTY	1985				1984			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		*Bushels*		*Acres*		*Bushels*	
Alger	550	540	61.9	33,400	550	540	56.9	30,700
Baraga	250	240	62.9	15,100	150	150	54.0	8,100
Chippewa	800	790	53.9	42,600	700	680	47.9	32,600
Delta	2,700	2,680	63.1	169,000	2,300	2,240	63.8	143,000
Dickinson	350	340	62.9	21,400	450	440	68.0	29,900
Gogebic	—	—	—	—	—	—	—	—
Houghton	180	180	62.8	11,300	170	170	38.8	6,600
Iron	90	90	63.3	5,700	50	50	54.0	2,700
Keweenaw	—	—	—	—	—	—	—	—
Luce	130	130	63.1	8,200	220	210	43.8	9,200
Mackinac	140	140	62.9	8,800	150	140	45.0	6,300
Marquette	400	390	62.8	24,500	550	540	70.0	37,800
Menominee	2,700	2,680	63.1	169,000	2,900	2,840	65.8	187,000
Ontonagon	200	200	63.0	12,600	50	50	40.0	2,000
Schoolcraft	500	490	62.9	30,800	250	240	51.7	12,400
UPPER PENINSULA (1)	9,000	8,900	62.1	553,000	8,500	8,300	61.3	508,700
Antrim	50	50	50.0	2,500	50	50	48.0	2,400
Benzie	—	—	—	—	—	—	—	—
Charlevoix	450	430	51.2	22,000	350	330	43.9	14,500
Emmet	140	130	50.0	6,500	120	110	45.5	5,000
Grand Traverse	—	—	—	—	80	70	45.7	3,200
Kalkaska	—	—	—	—	—	—	—	—
Leelanau	—	—	—	—	—	—	—	—
Manistee	250	240	50.4	12,100	150	140	45.7	6,400
Missaukee	60	50	50.0	2,500	60	60	50.0	3,000
Wexford	—	—	—	—	—	—	—	—
NORTHWEST (2)	1,000	950	50.5	48,000	850	800	45.4	36,300
Alcona	190	180	68.9	12,400	220	210	60.0	12,600
Alpena	500	480	55.0	26,400	660	640	58.9	37,700
Cheboygan	450	420	61.0	25,600	600	580	54.5	31,600
Crawford	—	—	—	—	—	—	—	—
Iosco	200	190	72.6	13,800	420	410	58.8	24,100
Montmorency	370	360	60.6	21,800	200	200	54.0	10,800
Ogemaw	310	310	64.8	20,100	500	490	55.9	27,400
Oscoda	50	50	64.0	3,200	60	60	55.0	3,300
Otsego	150	140	60.0	8,400	220	210	51.0	10,700
Presque Isle	650	640	54.1	34,600	700	680	61.9	42,100
Roscommon	—	—	—	—	—	—	—	—
NORTHEAST (3)	2,900	2,800	60.0	168,000	3,600	3,500	57.5	201,300
Lake	—	—	—	—	—	—	—	—
Mason	200	180	53.9	9,700	180	160	43.8	7,000
Muskegon	250	230	60.9	14,000	300	280	43.9	12,300
Newaygo	60	50	58.0	2,900	170	160	45.0	7,200
Oceana	—	—	—	—	—	—	—	—
WEST CENTRAL (4)	550	500	58.0	29,000	700	650	44.2	28,700
Clare	500	490	64.5	31,600	360	350	48.0	16,800
Gladwin	300	290	78.3	22,700	260	250	54.8	13,700
Gratiot	350	340	78.2	26,600	240	230	70.0	16,100

BARLEY: Acreage, Yield, Production, 1984-85

DISTRICT AND COUNTY	1985				1984			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		*Bushels*		*Acres*		*Bushels*	
Isabella	1,700	1,550	81.0	125,500	1,200	1,170	49.0	57,300
Mecosta	550	500	60.0	30,000	680	660	50.9	33,600
Midland	150	150	80.0	12,000	60	60	58.3	3,500
Montcalm	1,100	1,040	59.8	62,200	600	590	54.9	32,400
Osceola	350	340	60.0	20,400	300	290	50.7	14,700
CENTRAL (5)	5,000	4,700	70.4	331,000	3,700	3,600	52.3	188,100
Arenac	190	190	80.0	15,200	70	70	62.9	4,400
Bay	230	230	80.0	18,400	180	180	65.0	11,700
Huron	6,250	6,150	80.0	492,000	5,900	5,800	74.8	434,000
Saginaw	230	230	80.0	18,400	250	250	72.8	18,200
Sanilac	3,500	3,450	80.0	276,000	3,000	2,950	58.0	171,000
Tuscola	1,700	1,650	78.2	129,000	1,900	1,850	73.5	136,000
EAST CENTRAL (6)	12,100	11,900	79.7	949,000	11,300	11,100	69.8	775,300
Allegan	300	290	50.7	14,700	110	100	42.0	4,200
Berrien	120	120	52.5	6,300	150	140	43.6	6,100
Cass	700	690	60.9	42,000	600	580	44.0	25,500
Kalamazoo	250	250	60.0	15,000	150	140	45.0	6,300
Kent	650	640	56.3	36,000	600	570	48.9	27,900
Ottawa	300	290	52.8	15,300	270	260	43.8	11,400
Van Buren	330	320	52.2	16,700	120	110	42.7	4,700
SOUTHWEST (7)	2,650	2,600	56.2	146,000	2,000	1,900	45.3	86,100
Barry	250	240	57.9	13,900	330	320	51.9	16,600
Branch	180	180	62.8	11,300	120	110	44.5	4,900
Calhoun	350	340	61.8	21,000	70	70	42.9	3,000
Clinton	550	540	66.3	35,800	500	480	61.9	29,700
Eaton	100	100	63.0	6,300	60	60	46.7	2,800
Hillsdale	50	50	62.0	3,100	70	70	42.9	3,000
Ingham	300	290	65.9	19,100	150	140	43.6	6,100
Ionia	1,000	950	57.9	55,000	600	570	53.0	30,200
Jackson	80	80	61.3	4,900	100	100	45.0	4,500
St. Joseph	90	90	62.2	5,600	200	190	43.7	8,300
Shiawassee	450	440	65.9	29,000	350	340	58.8	20,000
SOUTH CENTRAL (8)	3,400	3,300	62.1	205,000	2,550	2,450	52.7	129,100
Genesee	220	210	62.9	13,200	120	110	60.0	6,600
Lapeer	670	660	67.3	44,400	950	900	51.8	46,600
Lenawee	400	390	62.8	24,500	—	—	—	—
Livingston	50	50	66.0	3,300	70	70	45.7	3,200
Macomb	100	100	63.0	6,300	—	—	—	—
Monroe	100	100	63.0	6,300	70	70	45.7	3,200
Oakland	—	—	—	—	—	—	—	—
St. Clair	350	340	67.6	23,000	250	230	52.2	12,000
Washtenaw	500	490	68.0	33,300	300	280	46.4	13,000
Wayne	—	—	—	—	—	—	—	—
SOUTHEAST (9)	2,400	2,350	66.0	155,000	1,800	1,700	50.8	86,400
STATE	39,000	38,000	68.0	2,584,000	35,000	34,000	60.0	2,040,000

POTATOES: Acreage, Yield, Production, 1984-85

DISTRICT AND COUNTY	1985				1984			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres			*Cwt.*	*Acres*			*Cwt.*
Delta	950	900	225	202,000	900	880	245	216,000
Dickinson	1,500	1,400	255	357,000	1,450	1,410	250	352,000
Houghton	500	470	220	103,000	450	440	240	106,000
Iron	450	420	250	105,000	500	490	250	122,000
Luce	600	550	255	140,000	600	590	250	147,000
Marquette	500	470	230	108,000	450	440	270	119,000
Schoolcraft	160	150	240	36,000	300	300	250	75,000
UPPER PENINSULA (1)	4,800	4,500	240	1,080,000	4,800	4,700	250	1,175,000
Antrim	1,500	1,450	265	382,000	1,500	1,450	245	355,000
Emmet	800	770	250	192,000	600	590	240	142,000
Kalkaska	1,250	1,200	230	276,000	1,300	1,280	235	301,000
Manistee	1,000	950	235	223,000	1,250	1,230	240	295,000
Missaukee	300	290	235	68,000	300	300	235	70,000
NORTHWEST (2)	5,000	4,800	245	1,178,000	5,200	5,100	240	1,224,000
Alpena	400	380	210	80,000	400	390	260	101,000
Otsego	900	870	250	218,000	850	830	235	195,000
Presque Isle	4,100	3,950	230	908,000	4,050	4,000	265	1,060,000
NORTHEAST (3)	5,700	5,500	230	1,265,000	5,600	5,510	260	1,433,000
Newaygo	200	180	250	45,000	200	190	260	49,000
WEST CENTRAL (4)	400	350	230	81,000	400	390	255	99,000
Gratiot	700	670	250	168,000	700	680	270	184,000
Mecosta	1,900	1,850	320	592,000	2,000	1,950	350	683,000
Montcalm	12,900	12,600	325	4,100,000	12,300	12,100	345	4,174,000
Osceola	200	190	250	48,000	200	190	260	49,000
CENTRAL (5)	16,000	15,600	320	4,997,000	15,500	15,200	340	5,167,000
Arenac	2,500	2,460	225	554,000	2,500	2,470	185	457,000
Bay	7,100	7,000	220	1,540,000	6,900	6,800	205	1,394,000
Huron	900	890	230	205,000	600	590	195	115,000
Saginaw	700	690	230	159,000	850	830	195	162,000
Tuscola	2,300	2,270	205	465,000	2,000	1,960	205	402,000
EAST CENTRAL (6)	14,000	13,800	220	3,036,000	13,000	12,800	200	2,560,000
Allegan	2,100	2,050	270	554,000	2,200	2,150	315	677,000
Kent	700	680	340	231,000	600	580	330	191,000
Ottawa	400	390	230	90,000	500	480	310	149,000
SOUTHWEST (7)	3,600	3,500	275	962,000	3,800	3,700	310	1,154,000
Barry	650	620	240	149,000	450	440	250	110,000
Calhoun	350	340	220	75,000	300	290	235	68,000
Eaton	1,000	950	260	247,000	1,000	950	235	223,000
Ingham	600	570	270	154,000	550	540	250	135,000
Shiawassee	300	280	220	62,000	300	290	235	68,000
SOUTH CENTRAL (8)	3,300	3,150	250	788,000	3,000	2,900	240	696,000
Genesee	900	820	250	205,000	900	890	230	205,000
Lapeer	600	550	235	129,000	600	590	250	147,000
Lenawee	1,900	1,750	290	508,000	1,900	1,800	260	468,000
Macomb	500	460	215	99,000	500	490	215	105,000
Monroe	2,300	2,100	280	589,000	1,850	1,800	245	441,000
St. Clair	300	270	215	58,000	300	290	235	68,000
Washtenaw	650	600	250	150,000	600	590	250	148,000
SOUTHEAST (9)	7,200	6,600	265	1,749,000	6,700	6,500	245	1,592,000
STATE	60,000	57,800	260	15,136,000	58,000	56,800	265	15,100,000

MICHIGAN AGRICULTURAL STATISTICS

1987

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DEPARTMENT OF AGRICULTURE

P.O. Box 30017 Lansing, Michigan 48909

PAUL E. KINDINGER, Director

July, 1987

Dear Reader:

Agriculture plays a vital role in the Michigan economy and the Michigan Agricultural Statistics Service (MASS) plays an equally important role in providing our farmers with the information they need to make sound business decisions.

MASS has provided Michigan agriculture accurate and timely statistical data for more than 110 years. The future of our industry is dependent on the quality of information we provide our retailers, producers, processors and marketers, because decisions which will shape the future of the industry are often based on the data provided by MASS.

Agriculture is Michigan's second leading industry--contributing nearly $15.5 billion to our economy annually. Michigan leads the nation in the production of nine commercial crops and ranks fifth or higher in the production of 20 other crops. In addition, Michigan is home to a number of the nation's largest and most prominent food processors, distributors, and retailers.

I am confident the data contained in Michigan Agricultural Statistics 1987 will assist its readers in making critical business decisions. We hope you will find this reference publication informative and easy to use. If you have any questions or comments, please feel free to contact the Michigan Agricultural Statistics Service.

The variety and quality of Michigan's food industry, when coupled with the beauty of our land, the richness of our soils and our abundant supply of fresh water, make our state a great place to live, work, and play.

Sincerely,

P. E. Kindinger

Director

MICHIGAN AGRICULTURAL STATISTICS 1987

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The photo provided courtesy of Michigan Sesquicentennial Office.

Michigan is celebrating its 150th year of statehood in 1987.

This bulletin is provided free to Michigan farmers and reporting agribusiness firms. Others may obtain copies at $3.00 each. Please make checks payable to USDA-NASS and send it with your request to P.O. Box 20008, Lansing, MI 48901.

MASS-87-01

Michigan
Agricultural
Statistics
Service

Michigan Dept. of Agriculture
U.S. Department of Agriculture

ROOM 201 FEDERAL BUILDING
P.O. Box 20008, Lansing, Michigan 48901
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July, 1987

Dear Friends:

Michigan was admitted to the Union as the 26th State in 1837. This year marks the celebration of Michigan's sesquicentennial. Throughout its history, Michigan has seen profound changes. One major change was a shift from a rural to an urban population.

In 1837 Michigan's population numbered about 200,000, with only 9,000 classified as city dwellers. Today Michigan's population, over 9.1 million, ranks 8th among all states, with 200,000 people living on farms. The 2 percent living on farms today is equivalent to the total population on the eve of Michigan's statehood in 1837.

Michigan's economy has prospered. Anchored in a solid triangle of manufacturing, agriculture and tourism, Michigan's per capita income is over $14,000. Michigan ranks 18th among all states in cash receipts for agricultural products. Industry has progressed from the blacksmith's anvil to advanced information research and robotic manufacturing technology. Agriculture has been transformed from the ox drawn plow to the high technology of hybridization, selective pesticides and computer driven mechanization. Genetic engineering now stands on the threshold as the next revolution in food production.

The past 150 years have transformed Michigan's landscape and economy, yet farmers still wrestle with many of the same basic problems. Despite all the advancements provided by science, Mother Nature remains uncontrolled. She reigns over agriculture as a fickle sovereign. The devastating floods of September, 1986 serve as a grim reminder that, in spite of all the technical achievements in the past 150 years, agriculture is still at the mercy of the elements.

The major contributors to this publication were Michigan's farmers, county agents and agribusinesses whom we contacted for data. I want to thank all of you for your efforts. Your participation makes this bulletin possible.

Sincerely,

Don J. Fedewa

Don J. Fedewa
State Statistician

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Michigan's Rank in the Nation's Agriculture, 1986

COMMODITY	Rank Among States	Production	Unit	Percent of U.S. Production	Leading State
		1,000			
Tart Cherries	1	170,000	Lbs.	75.9	**Michigan**
Cucumbers for Pickles	1	139.2	Tons	21.8	**Michigan**
Navy Beans	1	1,495	Cwt.	42.5	**Michigan**
Cranberry Beans	1	225	Cwt.	100.0	**Michigan**
Black Turtle Beans	1	612	Cwt.	86.3	**Michigan**
Geraniums, Potted	1	12,045	Pots	14.7	**Michigan**
Bedding Plants	1	7,480	Flats	14.3	**Michigan**
Prunes and Plums	2	11	Tons	23.4	Oregon
Easter Lilies, Potted	2	875	Pots	12.7	California
Gladioli	2	23,600	Spikes	13.9	Florida
Apples	3	700,000	Lbs.	8.8	Washington
Sweet Cherries	3	20,000	Lbs.	14.5	Washington
Red Kidney Beans	3	209	Cwt.	15.3	California
Asparagus	3	246	Cwt.	11.0	California
Celery	3	1,040	Cwt.	5.9	California
Mushrooms	3	20,171	Lbs.	3.4	Pennsylvania
Small White Beans	3	23	Cwt.	9.9	Idaho
Tomatoes, Processing	4	133.4	Tons	1.8	California
Snap Beans, Processing	4	42.2	Tons	6.9	Wisconsin
All Dry Beans	5	2,720	Cwt.	11.9	N. Dakota
Carrots	5	925	Cwt.	4.1	California
Non-Fat Dry Milk	5	94,559	Lbs.	7.4	California
African Violets, Potted	5	660	Pots	3.3	California
Other Lilies, Potted	5	40	Pots	5.9	Pennsylvania
Grapes	5	32	Tons	.6	California
Sugarbeets	5	2,288	Tons	9.1	Minnesota
Pears	5	11	Tons	1.4	California
Floriculture	5	84,012	Dollars	4.5	Florida
Poinsettias, Potted	5	2,365	Pots	6.5	California
Strawberries	5	144	Cwt.	1.4	California
Alfalfa Hay	6	5,040	Tons	5.5	Wisconsin
Peaches	6	50,000	Lbs.	3.6	California
Milk	6	5,404,000	Lbs.	3.8	Wisconsin
Spearmint	6	87	Lbs.	3.3	Washington
Cauliflower	6	39	Cwt.	.5	California
Corn for Silage	6	4,320	Tons	4.9	Wisconsin
Butter	7	37,677	Lbs.	3.1	Wisconsin
Oats	7	17,010	Bushels	4.4	Wisconsin
Rye	7	713	Bushels	3.7	S. Dakota
Creamed Cottage Cheese	8	33,705	Lbs.	4.8	New York
Corn, Sweet	8	702	Cwt.	4.7	Florida
Ice Milk	8	11,803	Gallons	3.8	California
Mink	8	154.5	Pelts	4.0	Wisconsin
Onions	9	1,653	Cwt.	3.9	California
Corn for Grain	9	257,250	Bushels	3.1	Iowa
Ice Cream	9	33,520	Gallons	3.6	California
Pinto Beans	9	138	Cwt.	1.4	N. Dakota
All Hay	10	5,743	Tons	3.7	Wisconsin
Lettuce	10	240	Cwt.	.4	California
Potatoes	10	11,190	Cwt.	3.2	Idaho
Milk Sherbet	10	1,808	Gallons	3.6	California
Tomatoes, Fresh Market	12	285	Cwt.	.9	Florida
Hogs and Pigs[1]	12	1,250	Head	2.5	Iowa
Eggs	12	1,644,000	Eggs	2.4	California
Turkeys	14	2,700	Birds	1.3	N. Carolina
Winter Wheat	15	30,600	Bushels	2.0	Kansas
Soybeans	16	30,400	Bushels	1.5	Illinois
Barley	18	3,245	Bushels	.5	N. Dakota
Cash Receipts from Marketings	18	2,641,929	Dollars	2.0	California

[1] December 1 inventory

Farm Numbers and Acreage, Michigan[1]

YEAR	Number of Farms	Average Size per Farm	Total Land in Farms
		Acres	*1,000 Acres*
1986	**61,000**	**185**	**11,300**
1985	62,000	184	11,400
1984	63,000	181	11,400
1983	64,000	178	11,400
1982	64,000	178	11,400
1981	65,000	175	11,400
1980	65,000	175	11,400
1970	84,000	151	12,700
1960	118,000	131	15,400
1950	161,000	111	17,900
1940	190,000	97	18,400
1930	179,000	101	18,000
1920	196,447	97	19,033
1910	206,960	92	18,941
1900	203,261	86	17,562

[1] Starting with 1979, USDA estimates of farm numbers and land in farms is based on the definition "a farm is a place as of June 1 that sells or could sell $1,000 of agricultural products during the year." Prior to 1979 farm definition was "places of 10 or more acres that had annual sales of $50 or more or places that had annual sales of $250 or more."

Michigan Crop Acreage, Production and Value

CATEGORIES AND ANNUAL TOTALS	Acreage Harvested	Total Production	Value of Production
	1,000 Acres	*1,000 Tons*	*1,000 Dollars*
1986 CROPS:			
Field Crops[1]	7,013	22,450	1,079,667[2]
Fruit	112	534	140,357
Vegetables	99	583	109,498
TOTAL CROPS:			
1986	**7,224**	**23,567**	**1,329,522[2]**
1985	7,904	26,070	1,812,172
1984	7,935	23,055	1,788,223
1983[3]	6,380	20,362	1,712,185

[1] Includes minor crops.
[2] Includes 1986 sugarbeet production valued at the 1985 level.
[3] Does not include asparagus and cucumbers for pickles.

Value of Farm Real Estate, Michigan[1]

YEAR	Average Value per Acre of Land and Buildings	Total Value of Land and Buildings	Farms Rented for Cash per Acre	Cropland Rented for Cash per Acre
	Dollars	*Million Dollars*	*Dollars*	*Dollars*
1987	**833**	**9,416**	**41.51**	**41.87**
1986	936	10,580	43.87	47.73
1985	1,052	11,993	46.05	51.09
1984	1,223	13,942	47.72	54.14
1983	1,223	13,942	51.70[2]	57.30[2]

[1] April 1, 1983-85, and February 1, 1986-87.
[2] Estimates omit crop reporting districts 1, 2, 3 and 4.

Grain Storage

YEAR	Off Farm		On Farm[1] Capacity
	Number of Facilities	Rated Capacity	
		1,000 Bushels	
1986[2]	**345**	**158,000**	**296,029**
1986[3]	**353**	**135,000**	**276,972**
1985[3]	361	131,000	—
1984[3]	374	129,500	—
1983[3]	376	127,000	—

[1] Capacity data are survey indications.
[2] December 1.
[3] January 1.

Production Index by Groups, Michigan (1977 = 100)

YEAR	All Crops[1]	Feed Grains[2]	Hay	Cash Crops[3]	Fruit
1986	**134**	**121**	**201**	**112**	**112**
1985	149	136	200	134	163
1984	129	105	185	126	128
1983	107	79	157	114	113
1982	133	139	152	108	152

[1] Includes feed grains, hay, cash crops and fruit.
[2] Corn, oats and barley.
[3] Wheat, dry beans, soybeans, sugarbeets and potatoes.

Production Index by Groups, United States (1977 = 100)

YEAR	All Crops[1]	Feed Grains	Hay and Forage	Food Grains	Sugar Crops
1986	**108**	**123**	**106**	**106**	**106**
1985	117	134	106	121	97
1984	111	116	107	129	95
1983	88	67	100	117	93
1982	117	122	109	138	96

[1] Includes vegetables, fruits, nuts and some other crops not in separate groups shown, and farm vegetable gardens.

September 1986 Flood

September 1986 will be remembered for its record breaking precipitation and the widespread flooding it caused over the central Lower Peninsula. The State had much above normal precipitation except for the north central and northwestern Upper Peninsula. The central part of the Lower Peninsula was the hardest hit area receiving more than 12 inches of rain. That area was about 75 miles from north to south and extended west to east from Lake Michigan to Lake Huron. This area received about 5 to 6 times the normal precipitation, and new monthly records were established for most of the region. Four weather stations recorded 19 inches or more of rain in September. They were Edmore, 19.26 inches; Unionville, 19.23 inches; Big Rapids, 19.05 inches; and Entrican, 19.00 inches. The new state record of 19.26 inches exceeded the old record by 3.02 inches. Most long-term records are usually broken by just a few percentage points at a time and only at one or two stations. These totals produced record amounts over an unusually large area.

The major events that lead to these new monthly records occurred during the period September 9 to 12. They were the result of a slow moving storm system that lingered in the area. Rainfall amounts in the central Michigan area generally ranged between 8 to 12 inches with Big Rapids recording 13.47 inches. The biggest daily amount were received in this area on September 11. The amounts ranged from 3 to over 9 inches. Maximum amounts were 9.45 inches at Vestaburg, 9.35 inches at Mt. Pleasant, 9.33 inches at Alma and 9.02 inches at Cass City. The state record for daily precipitation is 9.78 inches and was set at Bloomingdale, September 1, 1914. The second highest value was 7.99 inches at Holland on July 17, 1982. Although no single station exceeded the state record on September 11, 8 stations exceeded 8.0 inches and surpassed the previous second highest value.

TOTAL PRECIPITATION (INCHES)

SEPTEMBER 1986

Area that exceeded the previous one month total rainfall for the State, which was 16.24 inches at Battle Creek for June 1883.

* Stations reporting more than 19 inches.

As extreme as the September 9-12 event was in terms of total rainfall, another 5 to 8 inches of rain fell the remainder of the month in central Michigan. In southwest Michigan over 12 inches were received at other times during the month.

The temperatures during September were quite variable also. Temperatures over the State were near normal to below normal during the period September 1 to 20. However, temperatures soared during the last 10 days of the month. Average temperatures jumped 6 to 12 degrees above normal. Daily maximums were in the upper 80's in southern Michigan. Several stations reached 88 degrees on the 26th.

In summary, repeated heavy daily precipitation over a wide area, combined with unusually high temperatures and humidity produced the damage. The storm was especially hard-hitting to central Michigan farmers, as severe damage and losses to crops occurred. Unharvested crops were especially affected by the extremely wet conditions. To variable degrees fields were abandoned, harvest was delayed and quality reduced. The subsequent wet fall also greatly reduced fall tillage and winter wheat planting. Extensive flooding also caused much damage to homes, businesses, roadways, bridges, dams, etc. in the central Michigan area. Overall, these events were the worst in Michigan in recorded history.

TOTAL PRECIPITATION (INCHES)
SEPT. 9 - 12, 1986

Data provided by Dr. Fred V. Nurnberger, State Climatologist, Michigan Department of Agriculture.

Michigan Historical Agricultural Statistics

YEAR	Number of Farms[1]	Winter Wheat Acres Harvested	Oats Acres Harvested	All Corn Acres Harvested	Dry Beans Acres Harvested[2]	Soybeans Acres Harvested	All Hay	All Cattle	All All Hogs	Sheep & Lambs[3]
	1,000	*1,000*	*1,000*	*1,000*	*1,000*	*1,000*	*1,000*	*1,000*	*1,000*	*1,000*
1860	62									
1866		1,020	205	480			780			
1867		1,080	220	500			880	538	550	3,100
1868		1,140	240	560			980	573	570	1,825
1869		1,090	260	540			860	605	600	2,400
1870	99	1,075	295	570			900	626	645	2,159
1871		1,155	325	600			920	681	695	2,029
1872		1,105	355	680			980	733	760	2,070
1873		1,200	350	680			890	756	800	2,236
1874		1,280	370	740			920	793	755	2,348
1875		1,340	390	790			1,020	776	740	2,348
1876		1,390	440	810			1,060	787	745	2,348
1877		1,430	525	890			1,120	798	850	2,113
1878		1,790	550	920			1,130	851	920	2,007
1879		1,823	536	920			1,245	934	910	2,125
1880	154	1,950	565	930			1,250	995	875	2,239
1881		1,950	565	980			1,520	969	835	2,396
1882		1,985	680	1,070			1,450	957	850	2,460
1883		1,786	725	1,010			1,840	965	875	2,600
1884		1,985	890	1,060			1,790	1,041	925	2,696
1885		1,890	910	1,070			1,830	1,100	950	2,600
1886		1,900	905	1,080			1,800	1,130	960	2,399
1887		1,860	980	1,100			1,860	1,139	900	2,250
1888		1,670	1,085	1,150			1,780	1,193	890	2,330
1889		1,680	1,100	1,090			1,920	1,191	875	2,250
1890	172	1,630	1,045	1,100			2,070	1,140	850	2,250
1891		1,720	965	1,110			1,970	1,073	840	2,305
1892		1,840	960	960			2,110	953	735	2,305
1893		1,740	980	1,080			2,340	932	650	2,360
1894		1,480	1,150	1,260			2,200	950	750	2,350
1895		1,430	1,190	1,470			1,880	956	850	2,100
1896		1,620	1,150	1,490			1,770	930	875	1,738
1897		1,650	1,005	1,440			2,040	930	940	1,515
1898		1,820	965	1,430			2,030	1,000	1,015	1,610
1899		1,926	1,019	1,540			2,179	1,060	950	1,715
1900	203	1,570	1,125	1,570			2,220	1,145	900	1,750
1901		1,400	1,160	1,600			2,350	1,200	920	1,838
1902		1,130	1,225	1,620			2,480	1,250	980	1,820
1903		920	1,320	1,620			2,640	1,300	1,030	1,740
1904		700	1,320	1,600			2,550	1,333	1,060	1,650
1905		1,100	1,325	1,560			2,560	1,325	1,085	1,505
1906		1,130	1,425	1,580			2,630	1,343	1,060	1,560
1907		950	1,470	1,610			2,580	1,361	1,060	1,600
1908		930	1,410	1,610			2,700	1,312	1,050	1,665
1909		802	1,429	1,670	404		2,592	1,304	1,045	1,690
1910	209	930	1,515	1,700	420		2,600	1,322	931	1,714
1911	208	1,020	1,500	1,700	475		2,470	1,320	1,060	1,885
1912	207	700	1,485	1,635	513		2,510	1,295	1,050	1,696
1913	206	850	1,500	1,685	510		2,510	1,318	1,000	1,442
1914	205	910	1,515	1,750	490		2,560	1,370	1,000	1,197
1915	204	1,010	1,530	1,750	506		2,590	1,448	1,060	1,053
1916	203	820	1,423	1,650	470		2,900	1,501	1,115	1,000
1917	202	868	1,550	1,750	537		2,770	1,531	1,025	900
1918	201	710	1,658	1,650	500		2,800	1,582	975	944
1919	200	947	1,530	1,746	315		2,817	1,584	1,035	970
1920	198	994	1,561	1,781	334		2,789	1,586	1,106	960
1921	198	905	1,592	1,745	314		2,813	1,536	1,060	778
1922	197	1,014	1,498	1,710	458		2,841	1,506	1,100	752
1923	196	902	1,528	1,607	536		2,811	1,460	1,150	775
1924	195	788	1,497	1,561	625	2	2,907	1,420	1,143	1,052
1925	192	796	1,617	1,530	650	2	2,632	1,406	855	1,066

Michigan Historical Agricultural Statistics (Continued)

YEAR	Number of Farms[1]	Winter Wheat Acres Harvested	Oats Acres Harvested	All Corn Acres Harvested	Dry Beans Acres Harvested[2]	Soybeans Acres Harvested	All Hay	All Cattle	All All Hogs	Sheep & Lambs[3]
	1,000	*1,000*	*1,000*	*1,000*	*1,000*	*1,000*	*1,000*	*1,000*	*1,000*	*1,000*
1926	190	892	1,504	1,454	637	2	2,699	1,350	820	1,123
1927	186	794	1,534	1,250	567	2	2,785	1,320	845	1,266
1928	181	778	1,534	1,288	521	2	2,589	1,313	862	1,263
1929	178	780	1,268	1,197	575	2	2,696	1,335	759	1,334
1930	179	710	1,384	1,281	690	1	2,598	1,391	630	1,304
1931	182	717	1,495	1,512	635	3	2,493	1,391	542	1,234
1932	190	710	1,420	1,542	552	9	2,507	1,433	661	1,288
1933	200	860	1,207	1,511	567	8	2,619	1,516	793	1,300
1934	198	837	1,323	1,588	632	8	2,552	1,544	730	1,240
1935	197	854	1,428	1,667	530	16	2,505	1,518	512	1,175
1936	196	803	1,301	1,500	480	15	2,636	1,548	620	1,255
1937	194	996	1,261	1,590	450	16	2,516	1,594	775	1,255
1938	192	896	1,261	1,590	466	32	2,613	1,626	752	1,232
1939	191	731	1,174	1,596	492	51	2,652	1,675	812	1,147
1940	190	768	1,350	1,564	570	77	2,704	1,725	1,039	1,147
1941	188	730	1,350	1,501	684	100	2,628	1,811	977	1,120
1942	185	672	1,498	1,621	513	151	2,619	1,847	987	1,015
1943	181	665	1,138	1,556	617	103	2,830	1,921	1,184	978
1944	179	944	1,309	1,805	660	110	2,813	2,036	1,397	850
1945	177	982	1,466	1,751	363	122	2,671	2,016	978	734
1946	174	864	1,525	1,769	519	86	2,648	1,915	949	623
1947	171	1,192	1,052	1,574	467	76	2,628	1,838	835	510
1948	167	1,395	1,420	1,637	504	65	2,436	1,746	716	498
1949	163	1,297	1,448	1,686	519	63	2,346	1,746	759	428
1950	161	1,141	1,347	1,585	420	114	2,473	1,781	835	425
1951	156	1,232	1,387	1,664	378	120	2,422	1,799	902	413
1952	151	1,429	1,401	1,664	329	92	2,354	1,853	956	443
1953	146	1,515	1,247	1,801	372	108	2,344	1,983	746	458
1954	142	1,030	1,272	1,927	413	149	2,322	1,983	619	421
1955	138	948	1,297	1,985	504	138	2,165	1,943	693	424
1956	135	1,043	1,025	1,965	499	206	2,161	1,885	783	409
1957	132	991	1,035	1,788	474	246	2,002	1,791	736	404
1958	127	1,090	1,035	1,806	536	278	1,913	1,684	692	399
1959	123	1,112	890	2,023	509	236	1,887	1,684	789	415
1960	118	1,068	712	2,063	525	221	1,833	1,701	797	407
1961	114	1,111	847	1,795	541	285	1,751	1,735	844	382
1962	110	911	762	1,777	573	342	1,786	1,787	895	373
1963	106	1,039	739	1,901	584	321	1,786	1,787	832	343
1964	102	966	665	1,939	613	331	1,798	1,787	724	321
1965	98	802	552	1,920	650	440	1,777	1,769	652	314
1966	95	762	563	1,720	637	480	1,650	1,663	659	303
1967	92	1,120	462	1,760	495	509	1,520	1,547	606	288
1968	89	820	560	1,630	580	463	1,450	1,485	618	274
1969	86	565	465	1,590	640	495	1,350	1,470	697	271
1970	84	480	467	1,721	575	500	1,350	1,500	870	264
1971	82	495	415	2,250	550	500	1,340	1,560	766	255
1972	81	535	320	2,057	575	524	1,310	1,576	720	222
1973	78	568	330	2,285	525	693	1,370	1,576	727	206
1974	76	850	350	2,490	550	600	1,290	1,550	715	177
1975	70	900	370	2,630	520	610	1,325	1,580	700	147
1976	70	870	385	2,780	545	565	1,290	1,550	720	138
1977	68	825	340	2,950	480	770	1,300	1,570	640	149
1978	66	410	410	2,836	520	900	1,430	1,470	925	138
1979	66	735	310	2,885	460	1,010	1,330	1,250	1,040	121
1980	65	800	335	2,935	570	970	1,310	1,310	830	132
1981	65	830	340	3,180	590	1,040	1,270	1,340	690	124
1982	64	560	450	3,140	550	1,140	1,370	1,450	900	125
1983	64	730	300	2,190	350	1,040	1,400	1,500	1,250	110
1984	63	800	350	3,030	390	1,190	1,750	1,450	1,310	110
1985	62	750	390	3,080	410	1,080	1,750	1,410	1,190	110
1986	61	680	270	2,770	340	950	1,770	1,325	1,250	106

[1] 1860-1900 data from Census of Agriculture.
[2] No data available prior to 1909.
[3] 1867-1923 stock sheep only.

Farm Labor

Estimates on the number of farm workers and wage rates were first published at the national level in 1909. Currently, farm labor estimates are published quarterly by region. There are 18 regions published during the April, July and October quarters while only 5 regions are published in January. The 18 regions represent all States, except Alaska. Michigan is part of the Lake Region which includes Minnesota and Wisconsin. The Lake Region does not publish labor estimates in January.

A self-employed worker is a farm operator or partner who did at least one hour of unpaid agricultural work on the farm. An unpaid worker is anyone, other than a self-employed worker, who did at least 15 hours of unpaid agricultural work on the farm.

A hired worker is anyone, other than an agricultural service worker, who was paid for at least one hour of agricultural work on a farm. Worker type is determined by what the employee was primarily hired to do, not necessarily what work was done.

Hours Worked and Wage Rates[1]

YEAR & MONTH	Hours Worked Per Week			Wage Rates for All Hired Workers
	Self-employed	Unpaid	Hired	
	Hours			*Dollars Per Hour*
1987				
April	**54.3**	**37.0**	**39.9**	**4.35**
1986				
April	49.8	33.6	34.3	3.94
July	56.2	40.0	35.1	4.10
October	61.3	38.1	39.9	4.29
1985				
April	52.0	35.3	36.6	3.92
July	56.9	38.0	35.3	3.78
October	54.6	34.5	35.9	4.22

[1] Lake Region (Michigan, Minnesota, Wisconsin).

Workers on Farms[1]

YEAR & MONTH	All Farm Workers	Self-employed	Unpaid	Hired		
				Number of Workers	Expected to be Employed	
					150 Days or More	149 Days or Less
	1,000	*1,000*		*1,000*		
1987						
April	**346**	**187**	**80**	**79**	**56**	**23**
1986						
April	333	179	76	78	60	18
July	434	177	129	128	55	73
October	383	180	119	84	49	35
1985						
April	348	187	86	75	55	20
July	518	209	163	146	65	81
October	415	198	118	99	53	46

[1] Lake Region (Michigan, Minnesota, Wisconsin).

Wage Rates for Hired Workers[1]

YEAR & MONTH	Type of Work					Method of Pay		
	Field	Livestock	Field & Livestock	Supervisory	Other	Hourly	Piece Rate	Other
	Dollars Per Hour					*Dollars Per Hour*		
1987								
April	**4.36**	**3.88**	**4.15**	[2]	**6.07**	**4.09**	[2]	**4.94**
1986								
April	4.24	3.37	3.62	[2]	4.96	4.03	[2]	3.65
July	4.38	3.36	3.98	[2]	4.35	4.12	5.69	3.45
October	4.41	3.66	4.07	[2]	4.74	4.51	[2]	3.72
1985								
April	4.66	3.33	3.63	6.88	4.71	3.93	5.87	3.78
July	3.67	3.48	3.60	6.64	4.31	3.87	3.58	3.63
October	3.99	3.84	3.92	6.03	4.77	4.24	4.64	4.08

[1] Lake Region (Michigan, Minnesota, Wisconsin).
[2] Insufficient data.

INCOME AND PRICES

Cash receipts from 1986 marketings of Michigan crops, livestock and livestock products declined from the previous year. Total cash receipts, $2.6 billion, were down 7 percent from 1985 and reached their lowest level since 1979. Crop cash receipts, $1.4 billion, were down 12 percent, while livestock receipts were down only 1 percent. Reduced crop marketings and prices led to the lower receipts. The record fall 1986 rainfall and flooding contributed significantly to reduced crop marketings. Higher prices for meat animals nearly offset reduced livestock and milk marketings. Michigan placed 18th in the U.S. in total cash receipts. Cash receipts statistics provide only a partial measure of gross farm income and do not reflect the net income earned by farmers. To arrive at net farm income, one must also consider farm production expenses, government payments, net changes in inventories of commodities held by farmers, and income from other farm-related sources.

Farm expense data for Michigan is not yet available for 1986. Preliminary U.S. data shows that prices farmers paid for production inputs, interest, taxes, and wage rates declined 2.5 percent during 1986. Production inputs showing the largest decreases from 1985 to 1986 were fuels and energy, fertilizer, feed, seed, interest, and tractors and self-propelled machinery. Average fuel and energy costs declined 18 percent. Input costs for feeder livestock, chemicals, farm and motor supplies, other farm machinery, and building materials were basically unchanged. Inputs showing cost increases included autos and trucks, farm services and cash rents, taxes and farm wage rates. Most of the gains producers received from lower expenses were offset by the lower average prices received for many farm commodities. Preliminary estimates placed 1986 U.S. net farm income in the range of $28 to $32 billion, down slightly from the 1985 income of $30.5 billion.

Farm Income

Statistics on 1986 Michigan net farm income will be published in the fall of 1987, too late to be included in this bulletin. The financial status of many Michigan farmers continued to decline during 1985. While total farm debt declined for the third straight year, the total value of farm assets showed another large drop. Lower farm real estate values accounted for most of the decline in assets as the debt/asset ratio of 27 was up 6 percent. Net farm income increased slightly during 1985 as lower farm production expenses offset reduced gross farm income. Gross farm income, $3.6 billion, was down 3 percent. Government payments showed a large decline from the years 1983 and 1984 when the Payment in Kind (PIK) program was in effect. Government payments were still well above the level that prevailed in 1981 and 1982. Reductions in noncash income and a lower value of inventory adjustment also reduced gross farm income. Total farm production expenses, $2.9 billion, were down 5 percent. Other farm income includes cash income from sources such as forest product sales, recreation, machine hire and customwork. Noncash income includes allowances for the value of home consumption of farm commodities and the rental value of farm dwellings. The value of inventory adjustment is part of gross farm income and is the net year-to-year change in the quantity of grain and livestock owned by farmers at the end of each year.

Michigan Farm Balance Sheet

ITEM	1985	1984	1983	1982	1981
			Million Dollars		
Total Farm Assets	14,629.9	15,668.0	17,525.9	17,689.6	17,921.1
Real estate[1]	9,318.1	10,458.6	12,142.1	12,117.2	12,644.8
Livestock and poultry[2]	772.8	855.7	835.5	907.6	912.1
Machinery and motor vehicles	2,810.5	2,856.5	3,009.8	3,073.2	2,936.7
Crops[3]	928.9	652.4	734.6	826.9	719.8
Financial assets	799.7	844.7	804.0	764.8	707.8
Total Farm Debt	3,942.8	3,983.8	3,997.7	4,021.8	3,649.1
Real estate debt	2,070.4	2,183.6	2,185.2	2,099.9	2,021.5
Nonreal estate debt	1,593.4	1,685.2	1,656.5	1,631.9	1,482.6
CCC loans	279.0	115.0	156.0	290.0	145.0
Equity	10,687.1	11,684.1	13,528.2	13,667.9	14,272.0
Debt/Assets Ratio	27.0	25.4	22.8	22.7	20.4

[1] Excludes value of operator dwellings.
[2] Excludes equine and broilers.
[3] All crops held on farms including crops under CCC and CCC crops held off farms by farm operators.

Gross and Net Income, Michigan

ITEM	1985	1984	1983	1982	1981
			Million Dollars		
Gross farm income[1]	**3,593.3**	3,716.6	3,340.7	3,463.5	3,448.3
Cash Income					
Farm marketings	**2,850.1**	2,793.2	2,923.3	2,759.2	2,756.7
Crops	**1,618.8**	1,495.5	1,656.5	1,582.9	1,644.1
Livestock and products	**1,231.3**	1,297.6	1,266.8	1,176.3	1,112.6
Government payments	**116.6**	167.7	144.4	40.4	17.3
Other farm income[2]	**188.9**	161.3	128.9	124.8	117.0
Noncash Income					
Value of home consumption	**24.4**	26.0	30.3	33.5	33.0
Rental value of farm dwellings	**324.8**	385.4	378.9	410.7	387.7
Value of inventory adjustment	**88.6**	183.1	−265.2	94.9	136.8
Total production expenses[1]	**2,944.1**	3,080.9	3,109.2	3,015.4	2,914.9
NET FARM INCOME	**649.2**	626.7	231.5	448.1	533.4

[1] Includes operator households.
[2] Includes forest product sales, recreational income, machine hire and custom work, and other farm business-related income.

Income per Farm

YEAR	Michigan		United States	
	Gross Income	Net Income	Gross Income	Net Income
	Dollars		*Dollars*	
1985	**57,956**	**10,471**	**73,225**	**13,390**
1984	58,994	9,948	74,901	14,038
1983	52,198	3,617	64,315	5,472
1982	54,117	7,002	68,065	9,473
1981	53,051	8,206	68,335	11,044

Cash Receipts from Marketings, Michigan

COMMODITY	1985	1984	1983	1982	1981
			1,000 Dollars		
LIVESTOCK & PRODUCTS					
Dairy	**697,078**	709,538	739,946	703,906	693,961
Cattle & Calves	**230,022**	248,224	252,844	234,484	183,207
Hogs	**178,243**	203,601	163,245	132,554	129,020
Eggs	**59,255**	75,350	63,743	64,473	68,670
Sheep & Lambs	**4,919**	4,586	3,389	4,017	3,455
All Chickens	**5,406**	3,338	3,607	3,041	3,366
Turkeys	**31,096**	27,825	19,950	19,188	17,056
Other Livestock	**25,296**	25,164	20,111	14,654	13,816
TOTAL LIVESTOCK & PRODUCTS	**1,231,315**	1,297,626	1,266,835	1,176,317	1,112,551
CROPS					
Field Crops & Vegetables:					
Corn	**444,057**	297,416	433,194	490,630	456,916
Dry Edible Beans	**79,031**	92,054	121,710	114,148	221,321
Soybeans	**180,859**	179,785	231,481	218,442	176,847
Sugarbeets	**72,825**	72,825	71,531	66,337	53,795
Wheat	**130,143**	138,821	124,354	73,0[illegible]4	136,010
Potatoes	**66,760**	80,736	66,003	51,0[illegible]8	53,868
Hay	**45,419**	48,306	38,867	37,212	31,690
Oats	**19,898**	21,361	22,794	20,583	27,765
Mushrooms	**16,283**	16,329	15,977	13,446	16,319
Mint	**1,113**	1,700	1,534	1,788	1,829
Red Clover Seed	[1]	[1]	[1]	[1]	561
Rye	**713**	743	753	923	809
Barley	**1,756**	1,725	1,748	2,281	1,848
Vegetables	**161,626**	177,604	167,437	158,186	158,399
Other Crops	**13,295**	13,363	12,943	12,911	11,564
Fruit:					
Apples	**73,008**	61,816	62,022	57,744	75,031
Blueberries	[2]	[2]	[2]	[2]	26,572
Cherries	**67,896**	62,584	50,911	36,805	49,334
Grapes	**8,325**	8,094	11,593	11,710	13,296
Peaches	**11,391**	7,610	7,418	9,504	6,624
Strawberries	**6,300**	7,076	8,412	11,476	8,296
Pears	**1,844**	2,326	1,804	2,334	1,924
Prunes & Plums	**3,217**	3,246	2,317	2,694	2,206
Other Fruit	**33,268**[3]	22,602[3]	30,694[3]	24,442[3]	1,108
Other Products[4]:					
Greenhouse, Nursery, Ornamentals	**179,793**	177,421	171,000	165,000	110,200
TOTAL CROPS	**1,618,820**	1,495,543	1,656,497	1,582,728	1,644,132
TOTAL CASH RECEIPTS	**2,850,135**	2,793,169	2,923,332	2,759,045	2,756,683

[1] Included in other crops
[2] Included in other fruit
[3] Includes Blueberries
[4] Forestry products receipts no longer counted as cash receipts, but are included in the other farm-related income component of gross farm income. Maple products now included in other crops.

Government Payments, Michigan

PROGRAM	1985	1984	1983	1982	1981
			1,000 Dollars		
Conservation Programs	**3,687**	3,947	3,684	4,181	4,476
Wheat Programs	**14,840**	11,401	7,762	3,970	4,117
Feed Grain Programs	**79,661**	13,533	37,134	13,562	2,457
Misc. Programs[1]	**18,433**[2]	138,788[2]	95,809[2]	18,704	6,213
TOTAL	**116,621**	167,669	144,389	40,417	17,263

[1] Includes Wool Act, Milk Indemnity, Forest Incentive, Water and Lakes, Emergency Livestock Feed, Extended Storage and Livestock Indemnity Programs.
[2] Includes Payment in Kind (PIK) Program and PIK Storage Program Payments. Milk Diversion program included in 1984 and 1985.

Prices Received by Farmers

Prices Received for the 1985 Marketing Year

YEAR OR MONTH	Corn per Bu.	Wheat per Bu.	Oats per Bu.	Soy-beans per Bu.	Dry Beans per Cwt.	Navy Beans per Cwt.	Potatoes per Cwt.	All Hay per Ton	Alfalfa Hay per Ton
					Dollars				
1985 June	—	—	—	—	—	—	—	47.00	50.00
July	—	2.83	1.41	—	—	—	5.00	47.00	50.00
August	—	2.69	1.20	—	—	—	3.50	48.00	50.00
September	—	2.70	1.04	4.85	15.40	15.10	4.20	48.00	50.00
October	2.01	2.85	1.03	4.75	14.80	13.80	4.50	53.00	55.00
November	2.14	3.08	.98	4.79	15.60	14.30	4.30	57.00	60.00
December	2.22	3.17	1.07	4.92	15.30	14.70	3.85	57.00	60.00
1986 January	2.22	3.13	1.10	5.10	15.10	14.70	4.45	58.00	60.00
February	2.19	3.12	1.10	5.05	14.40	13.70	4.55	57.00	60.00
March	2.15	3.18	1.11	5.10	13.30	13.10	4.70	57.00	60.00
April	2.22	3.03	1.08	5.08	13.70	13.50	4.60	53.00	55.00
May	2.32	2.95	1.00	5.13	13.80	13.80	4.50	58.00	60.00
June	2.28	2.75	1.11	5.12	15.60	15.50	—	—	—
July	2.03	—	—	5.07	15.60	15.60	—	—	—
August	1.76	—	—	5.07	14.70	14.70	—	—	—
September	1.48	—	—	—	—	—	—	—	—
1985	2.14	2.84	1.17	4.93	15.00	14.20	4.40	53.00	55.00
1984	2.56	3.18	1.84	5.79	19.60	18.60	5.70	61.50	66.00
1983	3.20	3.39	1.83	7.82	23.20	21.50	6.60	57.50	62.00
1982	2.48	3.31	1.49	5.46	13.70	13.70	4.65	54.50	58.00
1981	2.35	3.47	1.97	6.04	25.60	25.90	6.30	56.50	63.00
1980	3.07	3.60	1.85	7.49	26.40	28.50	6.65	36.50	39.00
1979	2.48	3.82	1.45	6.13	18.50	18.50	4.44	36.00	38.00

Preliminary Prices Received for the 1986 Marketing Year

YEAR OR MONTH	Corn per Bu.	Wheat per Bu.	Oats per Bu.	Soy-beans per Bu.	Dry Beans per Cwt.	Navy Beans per Cwt.	Potatoes per Cwt.	All Hay per Ton	Alfalfa Hay per Ton
					Dollars				
1986 June	—	—	—	—	—	—	—	48.00	50.00
July	—	2.31	.85	—	—	—	8.50	38.00	40.00
August	—	2.34	.83	—	—	—	4.65	43.00	45.00
September	—	2.22	.90	4.67	13.90	13.60	5.10	47.00	50.00
October	1.45	2.32	1.00	4.55	20.80	23.20	5.20	52.00	55.00
November	1.38	2.50	1.34	4.53	19.80	24.70	6.05	57.00	60.00
December	1.40	2.56	1.58	4.57	27.40	32.00	6.50	47.00	50.00
1987 January	1.38	2.62	1.55	4.66	30.20	35.10	6.80	38.00	40.00
February	1.33	2.71	1.61	4.64	32.50	38.00	6.60	42.00	45.00
March	1.35	2.72	1.52	4.52	35.10	37.60	6.75	42.00	45.00
April	1.45	2.70	1.50	4.75	32.00	—	6.80	37.00	40.00
May	—	—	—	—	—	—	—	—	—

Prices Received for Livestock and Livestock Products

YEAR OR MONTH	All Hogs per Cwt.[1]	Beef Cattle per Cwt.[2]	Cows per Cwt.[3]	Steers & Heifers per Cwt.	Milk Cows per Head[4]	Calves per Cwt.	Eggs per Doz.[1]	All Milk Wholesale per Cwt.
			Dollars				*Cents*	*Dollars*
1986 January	**45.40**	**45.50**	**34.50**	**53.80**	**800**	**52.30**	**48**	**12.80**
February	**44.10**	**45.00**	**35.90**	**51.40**	—	**56.90**	**43**	**12.60**
March	**42.20**	**43.00**	**35.50**	**50.40**	—	**57.60**	**58**	**12.50**
April	**39.90**	**41.80**	**33.00**	**48.70**	**800**	**49.30**	**39**	**12.30**
May	**39.10**	**43.50**	**35.50**	**49.40**	—	**55.00**	**40**	**12.20**
June	**44.40**	**44.00**	**36.90**	**48.60**	—	**58.60**	**34**	**12.00**
July	**51.50**	**44.10**	**35.00**	**51.30**	**820**	**55.00**	**45**	**12.10**
August	**57.40**	**45.40**	**35.30**	**52.70**	—	**52.50**	**46**	**12.30**
September	**59.80**	**46.80**	**36.50**	**53.50**	—	**58.60**	**50**	**12.80**
October	**57.10**	**46.00**	**35.60**	**53.60**	**820**	**56.30**	**46**	**13.20**
November	**51.40**	**45.20**	**34.30**	**54.70**	—	**55.70**	**53**	**13.50**
December	**51.90**	**44.00**	**34.50**	**53.50**	—	**54.40**	**51**	**13.50**
1986	**48.30**	**44.50**	**35.20**	**51.80**	**810**	**55.00**	**47**	**12.60**
1985	43.90	46.30	36.10	52.10	865	53.30	42	12.70
1984	46.80	48.20	38.50	56.50	915	54.10	60	13.50
1983	47.00	47.20	39.10	54.30	1,070	57.00	52	13.60
1982	52.50	48.00	39.30	55.80	1,150	57.20	51	13.60

[1] Prices pertain to the marketing year, previous December through November.
[2] Combined price for "cows" and "Steers and Heifers."
[3] Beef cows sold for slaughter and herd replacement, and cull dairy cows sold for slaughter.
[4] Sold for dairy herd replacement only. Price series changed to quarterly, January 1982.

Index of Prices Received for Crop Commodity Groups (1977 = 100)

YEAR	Crops				
	All Crops	Cash Field	Fruit	Vegetables	Feed Crops
1986	**96**	**110**	**85**	**79**	**93**
1985	107	117	84	74	112
1984	133	139	107	123	138
1983	119	127	86	83	129
1982	118	127	109	121	115
1947-1949	55	65	41	34	73
1935-1939	21	25	17	13	31
1910-1914	22	25	17	—	39

Index of Prices Received for Livestock Commodity Groups (1977 = 100)

YEAR	Livestock				ALL LIVESTOCK AND CROPS
	All Livestock	Dairy Products	Meat Animals	Poultry and Eggs	
1986	**128**	**132**	**130**	**100**	**111**
1985	127	132	129	84	116
1984	136	140	136	112	134
1983	135	141	132	108	126
1982	138	141	142	99	127
1947-1949	55	45	57	113	55
1935-1939	23	19	21	55	23
1910-1914	19	16	17	49	20

Prices Paid by Michigan Farmers: Annual Averages

COMMODITY	Unit	1986[1]	1985	1984	1983	1982
				Dollars		
Framing lumber, 2" × 4" fir	M bd. ft.	**382.00**	343.00	363.00	383.00	370.00
Roofing, gal. steel, 28-29 Ga.	100 sq. ft.	**41.00**	43.00	44.00	48.00	47.50
Plywood, ½" C-D-X, 4' × 8'	Sheet	**9.65**	9.25	9.15	9.45	8.85
Post, steel	Each	**2.60**	3.00	3.10	3.30	3.00
Dairy feed, 16% protein	Ton	**167.00**	188.00	200.00	194.00	178.00
Hog conc., 38-42% protein	Cwt.	**13.50**	13.60	15.70	15.80	14.70
Soybean meal, 44% protein	Cwt.	**10.70**	9.70	12.80	14.20	13.30
Gasoline, regular, bulk	Gallon	**.968**	1.167	1.179	1.189	1.228
Diesel fuel	Gallon	**.829**	1.044	1.072	1.056	1.157
Motor oil, HD, detergent	Gallon	**4.69**	3.90	4.05	4.20	4.35
Truck tire, 7.50-16, load range D	Each	**73.00**	70.50	59.00[2]	63.75[2]	65.75[2]
Tractor tire, 18.4-38, 6 ply	Each	**405.00**	355.00	321.00[3]	373.00[3]	371.00[3]
Tractors: 110-129 hp.	Each	**38,500**	41,000	43,300	40,200	36,000
170-240 hp. 4-wd.	Each	**76,000**	73,500	79,500	79,000	71,300
Corn planter, 4-row[4]	Each	**8,600**	9,000	8,900	8,400	7,000
Plows, 1-way: 5 bottom	Each	**6,700**	7,350	7,850	8,800	7,600
Grain drill, 15-17 tube	Each	**5,700**	4,200	4,250	4,075	4,100
5-20-20	Ton	**144.00**	148.00	164.00	156.00	170.00
12-12-12	Ton	**147.00**	154.00	165.00	154.00	174.00
18-46-0	Ton	**215.00**	230.00	256.00	236.00	250.00
Anhydrous Ammonia	Ton	**197.00**	253.00	283.00	238.00	253.00
2, 4-D, 4 lb./gal. emul.	5 gallon	**45.00**	49.50	48.75	55.00	57.00
Atrazine, WP, 80%	5 lb.	**8.60**	7.85	8.60	9.65	10.25
Lasso, 4 lb./gal. emul.	5 gallon	**100.00**	99.00	98.50	98.00	93.00
Bladex, 4 lb./gal. liquid	Gallon	**18.00**	17.70	17.00	[5]	[5]
Dual, 8 lb./gal. emul.	Gallon	**48.40**	47.25	47.25	[5]	[5]
Treflan, 4 lb./gal. emul.	5 gallon	**125.00**	125.00	133.00	163.00	173.00

[1] The National Agricultural Statistics Service in February 1986, reduced the monthly Prices Paid by Farmers Surveys to a quarterly basis due to budget reductions. Starting in 1986 Prices Paid by Michigan farmers are not available and only national or regional estimates are published.
[2] Truck tire, 7.00-15, 6 ply.
[3] Tractor tire, 18.4-34, 6 ply.
[4] With fertilizer attachment.
[5] Not available.

Farm Production Expenses, Michigan

ITEM	1985	1984	1983	1982	1981
			Million Dollars		
Feed	**284.6**	291.7	317.2	254.9	237.9
Livestock	**27.9**	42.0	52.9	54.3	50.5
Seed	**111.8**	114.5	99.2	105.2	111.8
Fertilizer and lime	**209.5**	252.1	216.2	245.8	263.3
Pesticides	**132.4**	127.1	110.9	114.2	108.7
Fuel and oil	**151.7**	164.6	173.6	182.0	193.3
Electricity	**46.4**	48.5	48.1	45.7	39.3
Repair and operation	**219.1**	226.7	216.9	216.1	212.1
Other miscellaneous[1]	**281.1**	291.9	299.4	262.4	239.0
Real estate interest	**222.4**	238.6	242.8	231.4	196.8
Nonreal estate interest	**178.8**	172.8	181.1	189.9	179.4
Contract and hired labor expenses	**215.5**	208.2	206.9	216.6	186.8
Net rent to nonoperator landlords	**53.0**	53.6	29.2	29.9	51.8
Capital consumption	**568.7**	619.9	681.8	644.5	637.3
Business taxes	**241.3**	237.6	233.0	222.6	206.9
TOTAL PRODUCTION EXPENSES	**2,944.1**	3,089.9	3,109.2	3,015.4	2,914.9

[1] Includes machine hire and custom work, marketing, storage, and transportation expenses.

Michigan Production Costs Per Planted Acre 1985[1]

ITEM	Corn	Soybeans	Oats	Soft Red Winter Wheat
			Dollars	
Cash Receipts:				
Primary Crop	223.94	149.24	64.08	157.20
Secondary Crop	—	—	9.00	13.17
Total	223.94	149.24	73.08	170.37
Cash Expenses:				
Seed	17.53	9.62	9.89	13.05
Fertilizer	52.58	20.33	22.07	34.38
Lime and Gypsum	.60	.60	1.94	1.69
Chemicals	16.76	17.79	1.16	1.13
Custom Operations	8.16	4.20	5.38	5.42
Fuel, Lube, and Electricity	9.52	7.71	8.63	8.94
Repairs	8.82	6.42	7.73	8.23
Hired Labor	1.32	1.30	1.36	.96
Drying	4.91	—	—	—
Miscellaneous	.46	—	.65	.65
Technical Services	.14	—	.21	.21
Total, Variable Expenses	120.80	67.97	59.02	74.66
General Farm Overhead	19.36	16.34	6.05	10.56
Taxes and Insurance	27.87	27.30	24.63	27.78
Interest	55.00	46.40	17.19	30.00
Total, Fixed Expenses	102.23	90.03	47.87	68.34
Total, Cash Expenses	223.03	158.00	106.89	143.00
Receipts Less Cash Expenses	.91	−8.76	−33.81	27.37
Capital Replacement	31.99	23.55	22.63	24.90
Receipts Less Cash Expenses and Replacement	−31.08	−32.31	−56.44	2.47
Economic (Full Ownership) Costs:				
Variable Expenses	120.80	67.97	59.02	74.66
General Farm Overhead	19.36	16.34	6.05	10.56
Taxes and Insurance	27.87	27.30	24.63	27.78
Capital Replacement	31.99	23.55	22.63	24.90
Allocated Returns to Owned Inputs:				
Return to Operating Capital	4.03	2.11	1.27	3.71
Return to Other Nonland Capital	12.88	8.75	9.58	10.47
Net Land Rent	28.10	29.37	5.98	20.22
Unpaid Labor	10.69	8.71	13.79	11.05
Total, Economic Costs	255.72	184.10	142.95	183.35
Residual Returns to Management and Risk	−31.78	−34.86	−69.87	−12.98
Total, Returns to Owned Inputs	23.92	14.08	−39.25	32.47
Harvest-Period Price (Dollars/Bu.)	2.15	4.75	1.03	2.69
Yield (Bu./Planted Acre)	104.16	31.42	62.21	58.44

[1] SOURCE: Economic Research Service, state-level costs of production, 1985, preliminary.

Index of Prices Paid by Farmers: Annual Averages, United States, 1982-86

INDEX	1986	1985	1984	1983	1982
			1977 = 100		
Prices Paid by Farmers for Commodities & Services, Interest, Taxes, and Wage Rates (Parity Index 1910-14)	**159**	163	165	161	159
Production Items	**146**	151	155	152	153
Interst	**213**	238	257	258	249
Taxes	**134**	133	132	129	124
Wage Rates	**159**	153	151	148	144
Production Items, Interest, Taxes, and Wage Rates	**151**	157	162	159	159
Family Living — CPI[1]	**181**	177	171	164	159

[1] Bureau of Labor Statistics, Consumer Price Index for all Urban Consumers.

FIELD CROPS

General Information

Production of field crops for food and livestock feed is the nucleus of agriculture in Michigan. The value of field crops at the farm level in 1986 fell 33 percent from 1985 to just over $1.0 billion. The sharp decline was caused by a fall in commodity prices and by reduced production. Michigan tumbled to fifth among states in dry edible bean production. It also ranked in the top ten states in production of corn, oats, sugarbeets, hay and potatoes.

The 1986 crop season was disasterous. An unusually dry early May allowed planting of corn to progress ahead of normal. A very wet late May hindered completion of corn planting and kept soybean planting well behind schedule. June was cool and wet, so young crops lagged until July, when sweltering weather boosted soybean, dry bean and corn development. The warm, wet weather of late spring facilitated the spread of fungal diseases, which slashed small grain yields.

Timely rains in August prevented drought in the Lower Peninsula although much of the Upper Peninsula suffered soil moisture shortages throughout the growing season. Crop prospects were excellent until record rainfall struck the central Lower Peninsula in mid-September. Rains were continual until early October, and considerable dry bean, sugarbeet and potato acreage was destroyed by flooding and mold. Weather from mid-October until mid-November was excellent for harvesting.

Acreage and Production, United States

CROP	Area Harvested		Unit	Yield per Acre		Production	
	1986	1985		**1986**	1985	**1986**	1985
	1,000 Acres					*1,000*	
Corn, for grain	**69,189**	75,224	Bu.	**119.3**	118.0	**8,252,834**	8,876,706
Corn, silage	**6,244**	7,160	Ton	**14.2**	14.4	**88,510**	102,753
Oats	**6,870**	8,177	Bu.	**56.0**	63.7	**384,546**	520,800
Barley	**12,007**	11,603	Bu.	**50.8**	51.0	**610,497**	591,383
Wheat, all	**60,688**	64,734	Bu.	**34.4**	37.5	**2,086,780**	2,425,105
Winter	**43,170**	47,953	Bu.	**35.2**	38.1	**1,519,143**	1,827,615
Durum	**2,877**	3,094	Bu.	**33.2**	36.4	**95,407**	112,510
Other Spring	**14,641**	13,687	Bu.	**32.3**	35.4	**472,230**	484,980
Rye	**677**	717	Bu.	**28.8**	28.8	**19,498**	20,637
Soybeans	**59,427**	61,584	Bu.	**33.8**	34.1	**2,007,033**	2,098,531
Hay, all	**62,274**	60,423	Ton	**2.49**	2.46	**155,271**	148,601
Hay, Alfalfa	**26,748**	25,608	Ton	**3.42**	3.32	**91,424**	85,048
Hay, Other	**35,526**	34,815	Ton	**1.80**	1.83	**63,847**	63,553
Dry Beans[1]	**1,495.0**	1,481.4	Cwt.	**1,532.0**	1,497.0	**22,898**	22,175
Potatoes, all	**1,215.3**	1,361.1	Cwt.	**292.0**	299.0	**354,468**	407,109
Sugarbeets	**1,191.3**	1,102.5	Ton	**21.2**	20.4	**25,229**	22,529
Peppermint, for oil	**64.2**	65.1	Lb.	**67.0**	66.0	**4,328**	4,317
Spearmint, for oil	**28.5**	30.1	Lb.	**93.0**	77.0	**2,658**	2,317

[1] Yield per acre in pounds.

Monthly Farm Marketings

Corn

MONTH	CROP YEAR 1985	1984	1983	1982	1981
	Percent				
October	**7**	8	8	9	6
November	**20**	24	28	18	20
December	**24**	8	13	13	12
January	**17**	9	12	10	8
February	**4**	6	9	9	6
March	**3**	12	10	11	9
April	**4**	9	6	6	10
May	**6**	7	4	6	9
June	**4**	6	5	5	7
July	**4**	5	2	4	7
August	**3**	3	2	5	3
September	**4**	3	1	4	3

Soybeans

MONTH	CROP YEAR 1985	1984	1983	1982	1981
	Percent				
September	**3**	1	4	1	5
October	**22**	16	34	25	15
November	**16**	20	17	22	20
December	**18**	5	8	11	9
January	**11**	7	6	11	9
February	**5**	4	6	6	5
March	**7**	10	7	5	8
April	**6**	12	6	5	12
May	**4**	8	8	2	7
June	**4**	8	2	2	4
July	**2**	7	1	6	3
August	**2**	2	1	4	3

Dry Beans

MONTH	CROP YEAR 1985	1984	1983	1982	1981
	Percent				
September	**14**	16	16	11	14
October	**23**	18	23	24	25
November	**11**	7	10	7	15
December	**11**	7	7	6	9
January	**11**	7	6	7	8
February	**7**	5	7	5	6
March	**3**	5	4	4	6
April	**4**	5	4	6	4
May	**3**	9	4	11	7
June	**5**	11	6	8	4
July	**4**	7	6	5	1
August	**4**	3	7	6	1

Wheat

MONTH	CROP YEAR 1985	1984	1983	1982	1981
	Percent				
July	**52**	44	36	25	41
August	**16**	26	31	26	24
September	**9**	6	5	6	10
October	**6**	4	3	2	4
November	**6**	2	2	4	2
December	**3**	4	6	5	3
January	**2**	5	6	10	3
February	**2**	2	4	7	2
March	**1**	2	3	7	5
April	**1**	2	2	3	2
May	**1**	1	1	3	3
June	**1**	2	1	2	1

Oats

MONTH	CROP YEAR 1985	1984	1983	1982	1981
	Percent				
July	**12**	6	6	4	19
August	**51**	35	37	34	39
September	**5**	8	10	5	5
October	**3**	4	7	2	3
November	**6**	3	5	3	3
December	**2**	9	5	7	4
January	**2**	7	7	8	4
February	**2**	7	8	7	5
March	**3**	7	5	8	7
April	**7**	5	4	11	3
May	**3**	6	4	6	5
June	**4**	3	2	5	3

Hay

MONTH	CROP YEAR 1985	1984	1983	1982	1981
	Percent				
June	**14**	17	14	12	14
July	**14**	12	10	9	11
August	**6**	8	6	8	11
September	**5**	4	4	5	7
October	**5**	4	5	4	7
November	**5**	7	6	8	6
December	**11**	9	12	9	9
January	**10**	8	9	9	10
February	**10**	6	6	9	8
March	**9**	10	10	10	8
April	**8**	9	11	9	4
May	**3**	6	7	8	5

Field Crop Acreage, Production and Value, Michigan

CROP	YEAR	Acreage		Production			Price Received[1]	Value of Production
		Planted	Harvested	Unit	Per Acre	Total	Dollars per Unit	1,000 Dollars
		1,000				1,000		
CORN, all	**1986**	**2,800**	—	—	—	—	—	—
	1985	3,100	—	—	—	—	—	—
	1984	3,050	—	—	—	—	—	—
	1983	2,200	—	—	—	—	—	—
	1982	3,150	—	—	—	—	—	—
CORN, for grain	**1986**	—	**2,450**	**Bu.**	**105**	**257,250**	**1.40**	**360,150**
	1985	—	2,730	Bu.	105	286,650	2.14	613,431
	1984	—	2,620	Bu.	84	220,080	2.56	563,405
	1983	—	1,800	Bu.	92	165,600	3.20	529,920
	1982	—	2,740	Bu.	107	293,180	2.48	727,086
CORN, silage	**1986**	—	**320**	**Ton**	**13.5**	**4,320**	—	—
	1985	—	340	Ton	13.5	4,590	—	—
	1984	—	400	Ton	11.0	4,400	—	—
	1983	—	380	Ton	13.0	4,940	24.50	121,030
	1982	—	390	Ton	14.0	5,460	19.40	105,924
WINTER WHEAT	**1986**	**750**	**680**	**Bu.**	**45**	**30,600**	**2.35**	**71,910**
	1985	770	750	Bu.	60	45,000	2.84	127,800
	1984	900	800	Bu.	57	45,600	3.18	145,008
	1983	830	730	Bu.	49	35,770	3.39	121,260
	1982	650	560	Bu.	41	22,960	3.31	75,998
OATS	**1986**	**330**	**270**	**Bu.**	**63**	**17,010**	**1.05**	**17,861**
	1985	420	390	Bu.	67	26,130	1.17	30,572
	1984	370	350	Bu.	62	21,700	1.84	39,928
	1983	450	300	Bu.	52	15,600	1.83	28,548
	1982	475	450	Bu.	63	28,350	1.49	42,242
BARLEY	**1986**	**60**	**55**	**Bu.**	**59**	**3,245**	**1.60**	**5,192**
	1985	39	38	Bu.	68	2,584	2.05	5,297
	1984	35	34	Bu.	60	2,040	2.50	5,100
	1983	35	33	Bu.	49	1,617	2.85	4,608
	1982	38	36	Bu.	59	2,124	2.40	5,098
RYE	**1986**	**145**	**23**	**Bu.**	**31**	**713**	**1.40**	**998**
	1985	135	21	Bu.	31	651	1.90	1,237
	1984	140	21	Bu.	28	588	2.25	1,323
	1983	135	20	Bu.	30	600	2.05	1,230
	1982	135	18	Bu.	29	522	3.00	1,566
SOYBEANS	**1986**	**1,000**	**950**	**Bu.**	**32.0**	**30,400**	**4.55**	**138,320**
	1985	1,100	1,080	Bu.	32.0	34,560	4.93	170,381
	1984	1,200	1,190	Bu.	27.0	32,130	5.79	186,033
	1983	1,050	1,040	Bu.	32.5	33,800	7.82	264,316
	1982	1,150	1,140	Bu.	31.0	35,340	5.46	192,956
DRY BEANS[2]	**1986**	**480**	**340**	**Cwt.**	**800**	**2,720**	**18.30**	**49,776**
	1985	440	410	Cwt.	1,320	5,412	15.00	81,180
	1984	400	390	Cwt.	1,100	4,290	19.60	84,084
	1983	360	350	Cwt.	1,300	4,550	23.20	105,560
	1982	560	550	Cwt.	1,450	7,975	13.70	109,258

Field Crop Acreage, Production and Value, Michigan (Continued)

CROP	YEAR	Acreage		Production			Price Received[1]	Value of Production
		Planted	Harvested	Unit	Per Acre	Total		
		1,000				*1,000*	*Dollars per Unit*	*1,000 Dollars*
SUGARBEETS	**1986**	**137.0**	**110.0**	**Ton**	**20.8**	**2,288**	[3]	[3]
	1985	124.0	118.0	Ton	19.7	2,325	29.60	68,820
	1984	110.0	108.0	Ton	19.6	2,117	34.40	72,825
	1983	106.0	104.0	Ton	19.0	1,976	36.20	71,531
	1982	97.5	96.5	Ton	19.2	1,853	35.80	66,337
POTATOES, all	**1986**	**55.0**	**42.0**	**Cwt.**	**266**	**11,190**	**5.85**	**65,270**
	1985	60.0	57.8	Cwt.	262	15,136	4.40	66,596
	1984	58.0	56.8	Cwt.	266	15,100	5.70	86,122
	1983	55.0	52.8	Cwt.	228	12,023	6.60	79,570
	1982	51.5	49.3	Cwt.	260	12,796	4.65	59,575
POTATOES, summer	**1986**	**13.0**	**7.3**	**Cwt.**	**230**	**1,679**	[3]	[3]
	1985	14.0	13.8	Cwt.	220	3,036	4.20	12,751
	1984	13.0	12.8	Cwt.	200	2,560	6.70	17,152
	1983	12.0	11.8	Cwt.	185	2,183	6.70	14,626
	1982	10.5	10.3	Cwt.	220	2,266	4.45	10,084
POTATOES, fall	**1986**	**42**	**34.7**	**Cwt.**	**275**	**9,511**	[3]	[3]
	1985	46	44.0	Cwt.	275	12,100	4.45	53,845
	1984	45	44.0	Cwt.	285	12,540	5.50	68,970
	1983	43	41.0	Cwt.	240	9,840	6.60	64,944
	1982	41	39.0	Cwt.	270	10,530	4.70	49,491
HAY, all	**1986**	—	**1,770**	**Ton**	**3.24**	**5,743**	**52.50**	**301,508**
	1985	—	1,750	Ton	3.26	5,705	53.00	302,365
	1984	—	1,750	Ton	3.02	5,285	61.50	325,028
	1983	—	1,400	Ton	3.19	4,470	57.50	257,025
	1982	—	1,370	Ton	3.17	4,347	54.50	236,912
HAY, alfalfa	**1986**	—	**1,400**	**Ton**	**3.60**	**5,040**	—	—
	1985	—	1,400	Ton	3.60	5,040	—	—
	1984	—	1,400	Ton	3.30	4,620	—	—
	1983	—	1,100	Ton	3.60	3,960	—	—
	1982	—	1,050	Ton	3.50	3,675	—	—
HAY, other	**1986**	—	**370**	**Ton**	**1.90**	**703**	—	—
	1985	—	350	Ton	1.90	665	—	—
	1984	—	350	Ton	1.90	665	—	—
	1983	—	300	Ton	1.70	510	—	—
	1982	—	320	Ton	2.10	672	—	—
SPEARMINT, for oil	**1986**	—	**2.8**	**Lb.**	**31**	**87**	**11.00**	**957**
	1985	—	3.3	Lb.	28	92	12.10	1,113
	1984	—	3.8	Lb.	33	125	13.60	1,700
	1983	—	3.8	Lb.	31	118	13.00	1,534
	1982	—	3.9	Lb.	32	125	14.30	1,788

[1] Marketing year.
[2] Production per acre in pounds.
[3] Not available at publication time.

Corn

Corn was again the number one crop in Michigan in acreage and value of production. That was despite depressed market prices. The value of the 1986 corn for grain crop was $360 million. The State average yield, 105 bushels per acre, was the same as in 1985 and was second only to the 1982 yield of 107 bushels per acre. Rainfall was adequate throughout the growing season. Surplus moisture and flooding in September and October, however, cut yields in some localities. Lenawee, Huron and Branch were the top three counties in corn for grain production. State silage production was 4.32 million tons. The silage harvest was delayed by the rains, so some acreage intended for silage went for grain.

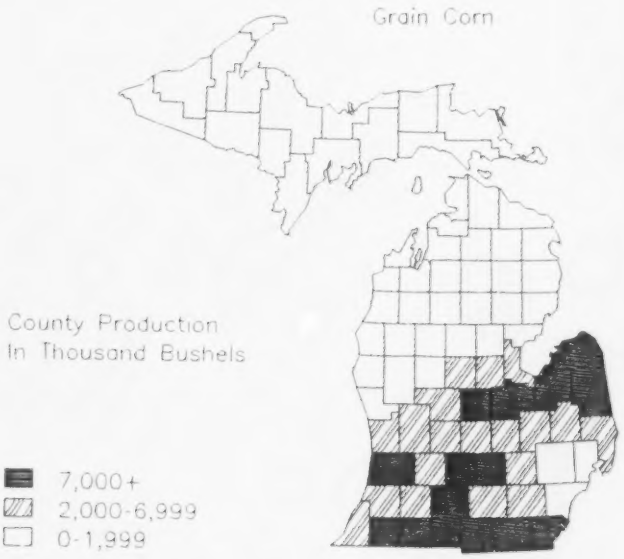
Michigan ranked ninth among states in corn production. U.S. corn production was 8.25 billion bushels, down 7 percent from 1985. About 63 percent of U.S. corn use was for livestock feed during the 1985/86 marketing year, and about 19 percent was exported. The rest of the crop was utilized in wet or dry milling, distilling, for seed or went into stocks.

Grain Corn Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1986	**2,450**	**105**	**257,250**
1985	2,730	105	286,650
1984	2,620	84	220,080
1983	1,800	92	165,600
1982	2,740	107	293,180

Corn Silage Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Tons*	*1,000 Tons*
1986	**320**	**13.5**	**4,320**
1985	340	13.5	4,590
1984	400	11.0	4,400
1983	380	13.0	4,940
1982	390	14.0	5,460



Grain Corn Stocks by Quarter

CROP YEAR	December 1[1]		March 1[2]		June 1		September 1[3]	
	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm
	1,000 Bushels							
1986	**210,000**	**92,565**	**140,000**	**85,069**				
1985	200,655	69,095	120,393	49,122	91,728	42,527	52,000	44,218
1984	127,646	43,716	88,032	24,932	55,020	18,397	15,406	10,389
1983	107,640	57,400	54,648	31,553	33,120	20,631	8,280	6,234
1982	199,362	58,646	143,658	48,040	117,272	47,658	64,500	41,090
1981	158,592	52,775	118,272	36,145	102,144	27,548	43,008	14,797

[1] Prior to 1986 January 1.
[2] Prior to 1986 April 1.
[3] Prior to 1986 October 1.

Soybeans

Soybeans were the third leading Michigan crop in value of production. The 1986 crop was valued at $138 million. In 1986 farmers harvested 30.4 million bushels, 12 percent below a year earlier. Michigan ranked 16th among states in soybean output in 1986 with 1.5 percent of U.S. production. Lenawee, Saginaw, Monroe and Clinton were the top counties in soybean production. Flooding in the Saginaw Bay area increased abandonment to an above normal level. Bean quality was also severely affected by the rain.

Soybeans are the most valuable U.S. oilseed. Soybean oil is used in cooking oil, margarine, paints, varnishes, adhesives and many other products. Soybean meal is a primary protein source in livestock feed. One 60 pound bushel yields about 11 pounds of oil and 47 pounds of meal. About 40 percent of U.S. soybean production is exported.

Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1986	**950**	**32.0**	**30,400**
1985	1,080	32.0	34,560
1984	1,190	27.0	32,130
1983	1,040	32.5	33,800
1982	1,140	31.0	35,340

Soybean Stocks by Quarter

CROP YEAR	December 1[1]		March 1[2]		June 1		September 1	
	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm
	1,000 Bushels							
1986	**11,500**	**10,654**	**7,000**	**7,500**				
1985	18,317	10,613	10,022	6,589	6,221	5,217	2,200	3,931
1984	10,924	11,832	6,426	5,934	3,534	3,812	1,928	2,310
1983	9,126	10,634	5,408	6,095	2,366	3,372	676	1,098
1982	17,670	7,871	10,602	4,017	6,008	3,925	1,767	1,495
1981	12,480	6,718	8,736	4,514	5,304	3,169	1,248	885

[1] Prior to 1986 January 1.
[2] Prior to 1986 April 1.

Sugarbeets

Sugarbeet production during 1986 was just under 2.3 million tons, 2 percent below tonnage a year earlier. The crop was damaged severely by the fall flooding. About 20 percent of the planted acreage had to be abandoned. Michigan ranked fifth among all states in production with 9 percent of the U.S. total. The 1985 sugarbeet crop was worth about $69 million to farmers in Michigan. Tuscola, Huron and Bay were the top three counties in beet production in 1986.

Sugarbeet acreage is contracted to processing plants, which refine the beets into sucrose. About half of U.S. domestic sugar production is from sugarbeets and half from sugarcane.

Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Tons*	*1,000 Tons*
1986	**110.0**	**20.8**	**2,288**
1985	118.0	19.7	2,325
1984	108.0	19.6	2,117
1983	104.0	19.0	1,976
1982	96.5	19.2	1,853

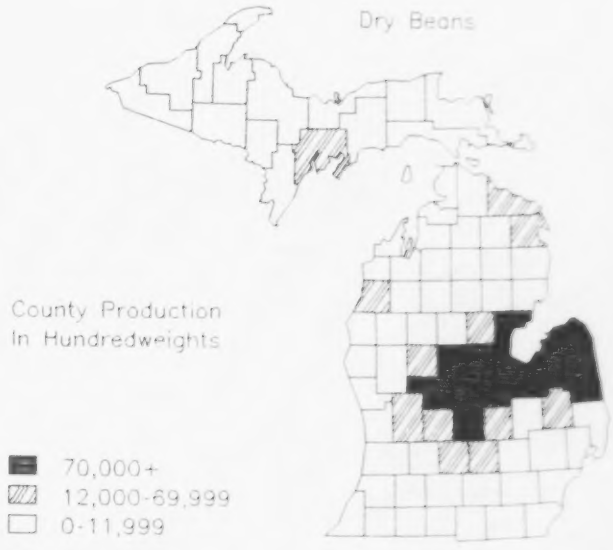
Dry Beans

Michigan's 1986 dry bean growing season was excellent until mid-September. From mid-September to early October the State's major dry bean producing areas received record rainfall. This rain along with several days of temperatures in the 80's caused the 1986 dry bean crop to be a disaster. Dry bean production during 1986 totaled just over 2.7 million hundredweight, a 50 percent decrease from the previous year. Michigan, which historically has ranked number one in total dry bean production, dropped to fifth place nationally. The State's navy bean output dropped about two-thirds below the 1985 level, but still had enough production to retain the number one U.S. ranking. The 1986 crop is valued at almost $50 million, almost 40 percent below last year. Yields averaged 800 pounds per acre on 340,000 harvested acres. The poor weather caused about 30 percent of the planted acreage to be abandoned.

Dry Bean Acreage, Yield, Production

KIND	Year	Harvested Acres	Yield per Acre	Production
		1,000	*Pounds*	*1,000 Cwt*
Navy	**1986**	**230**	**650**	**1,495**
	1985	335	1,300	4,355
	1984	342	1,050	3,591
	1983	293	1,280	3,750
	1982	455	1,430	6,497
Other Than Navy[1]	**1986**	**110**	**1,114**	**1,225**
	1985	75	1,409	1,057
	1984	48	1,455	699
	1983	57	1,400	800
	1982	95	1,560	1,478
Total	**1986**	**340**	**800**	**2,720**
	1985	410	1,320	5,412
	1984	390	1,100	4,290
	1983	350	1,300	4,550
	1982	550	1,450	7,975

[1] Yield derived.



Dry Bean Production by Kinds

KIND	1986	1985	1984	1983	1982
			1,000 Cwt.		
Navy Beans	**1,495**	4,355	3,591	3,750	6,497
Red Kidney	**209**	415	260	250	450
Cranberry	**225**	275	185	285	420
Pinto	**138**	60	30	28	120
Black Turtle	**612**	110	35	30	140
Small White	**23**	165	170	180	[1]
Others	**18**	32	19	27	348
Total	**2,720**	5,412	4,290	4,550	7,975

[1] Small white included in "Others."

Dry Bean Stocks in Commercial Elevators

YEAR AND MONTH	Navy	Other Than Navy	Total
December 31			
1986	**1,200**	**300**	**1,500**
1985	2,800	375	3,175
1984	2,550	275	2,825
1983	3,400	200	3,600
August 31			
1986	**520**	**80**	**600**
1985	460	110	570
1984	620	80	700
1983	1,400	200	1,600

Hay

Hay is Michigan's second leading crop in value of production. The 1986 crop was valued at just over $300 million. Most hay is grown by dairy or beef cattle producers for consumption by their own livestock. About 15 percent of the crop is sold to other farmers, to hay brokers or through auctions. The fall deluges prevented some producers from getting their final cutting of hay. A substantial amount of harvested hay spoiled in the field. Many stands suffered from root rot and other rain related problems.

Michigan ranked 10th among all states in hay production in 1986. Production was a record high 5.74 million tons, up 1 percent from 1985. Alfalfa hay was 88 percent of the total hay crop.

Production by Kinds

CROP YEAR	Total	Alfalfa and Alfalfa Mixtures		All Other Kinds	
		Acres	Production	Acres	Production
	1,000 Tons	*1,000*	*1,000 Tons*	*1,000*	*1,000 Tons*
1986	**5,743**	**1,400**	**5,040**	**370**	**703**
1985	5,705	1,400	5,040	350	665
1984	5,285	1,400	4,620	350	665
1983	4,470	1,100	3,960	300	510
1982	4,347	1,050	3,675	320	672

Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Tons*	*1,000 Tons*
1986	**1,770**	**3.24**	**5,743**
1985	1,750	3.26	5,705
1984	1,750	3.02	5,285
1983	1,400	3.19	4,470
1982	1,370	3.17	4,347

Hay Stocks on Farms

CROP YEAR	December 1[1]	May 1
	1,000 Tons	
1986	**3,331**	**861**
1985	3,195	742
1984	2,854	634
1983	2,503	626
1982	2,521	782

[1] Prior to 1986 January 1.

Spearmint

Michigan's 1986 spearmint crop totaled 87,000 pounds of oil with a value of $957,000. Wind damage in the spring and dry weather during the summer reduced harvested acreage.

Most Michigan spearmint goes to processors which produce oil to be further refined for use in such products as gum, medicine, soap and toothpaste. Fresh mint leaves are used in restaurants for garnishes. The major producing area is central Lower Michigan. Michigan ranks sixth nationwide in spearmint production.

Acreage, Yield, Production

YEAR	Acres Harvested	Production – Oil	
		Per Acre	Total
		Pounds	*1,000 Pounds*
1986	**2,800**	**31**	**87**
1985	3,300	28	92
1984	3,800	33	125
1983	3,800	31	118
1982	3,900	32	125

Wheat, Oats, Barley and Rye

Yields of small grains were cut in 1986 by disease. Above normal temperatures and high humidity in late May and in June facilitated the spread of fungal diseases. The wheat yield fell 25 percent from the previous year to 45 bushels per acre. Production on 680,000 harvested acres was 30.6 million bushels, 32 percent below the 1985 crop. Huron, Sanilac and Tuscola were the top three counties in wheat production.

Oats growers also experienced lower yields in 1986, as the statewide yield declined 4 bushels to 63 bushels per acre. Total production on 270,000 acres was 17 million bushels. Barley producers in the Great Lakes State produced 3.25 million bushels on 55,000 harvested acres for a yield of 59 bushels per acre. Rye producers harvested 31 bushels per acre.

Wheat grown in Michigan is virtually all marketed as a food grain. While a large percentage of oats are also sold, the majority is used on farms as livestock feed. Some barley is also used as feed although most is sold for malting. Rye is planted primarily as a winter cover crop.

Wheat Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1986	**680**	**45**	**30,600**
1985	750	60	45,000
1984	800	57	45,600
1983	730	49	35,770
1982	560	41	22,960

Oats Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1986	**270**	**63**	**17,010**
1985	390	67	26,130
1984	350	62	21,700
1983	300	52	15,600
1982	450	63	28,350

Barley Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1986	**55**	**59**	**3,245**
1985	38	68	2,584
1984	34	60	2,040
1983	33	49	1,617
1982	36	59	2,124

Rye Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1986	**23**	**31**	**713**
1985	21	31	651
1984	21	28	588
1983	20	30	600
1982	18	29	522

Small Grain Stocks by Quarter[1]

CROP	Crop Year	September 1[2]		December 1[3]		March 1[4]		June 1	
		On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm
		1,000 Bushels							
WHEAT	**1986**	**3,267**	**20,668**	**2,300**	**15,557**	**1,600**	**13,044**		
	1985	5,400	21,232	3,600	15,513	2,250	10,425	1,800	8,431
	1984	6,384	18,001	3,648	13,839	1,824	8,175	1,368	6,027
	1983	6,081	19,164	4,650	15,680	3,219	9,664	1,789	5,729
	1982	3,444	16,130	2,755	10,050	2,066	7,140	1,607	4,998
OATS	**1986**	[5]	[5]	[5]	[5]	[5]	[5]		
	1985	17,768	6,262	13,065	4,593	[5]	[5]	2,874	2,130
	1984	14,756	4,123	10,850	2,468	5,859	1,928	2,821	1,404
	1983	11,700	2,863	7,488	1,837	4,056	1,559	2,184	1,067
	1982	17,010	6,820	14,175	3,532	7,088	2,397	5,103	1,601

[1] Includes interior mills, elevators and warehouses, cereal food processing plants, census merchant mills, terminal and C.C.C. bins.
[2] Prior to 1986 October 1.
[3] Prior to 1986 January 1.
[4] Prior to 1986 April 1.
[5] Effective 1986 only June 1 estimates will be made.

Wheat Variety

Wheat acreage for harvest in Michigan during 1987 is estimated at 400,000 acres. About 71 percent, or 285,000 acres, are soft white varieties while 115,000 acres, 29 percent, are soft red varieties. The breakdown of acreage by class comes from a wheat variety survey conducted by the Federal/State Michigan Agricultural Statistics Service. The red and white percentage were 20 and 80, respectively, in 1986. The main reason for the percentage shift is that a greater portion of normal wheat acreage was unplanted in the fall of 1986 in the central and east central districts than in southeastern Michigan, where the majority of the wheat is soft red.

Frankenmuth, a soft white wheat, accounted for 43 percent of the acreage. Augusta was second with 21 percent of the acreage. Ten percent of the 1987 acreage was Hillsdale, the leading soft red variety. Caldwell and Pioneer 2550 combined were over 8 percent of the total. These five leading varieties accounted for 82 percent of wheat acreage in Michigan.

Michigan Winter Wheat Acreage for Harvest by Class 1987

CLASS	Crop Reporting Districts									State Total
	1	2	3	4	5	6	7	8	9	
	1,000 Acres									
Soft White	.8	5.5	11.7	4.5	41.5	71.0	33.0	97.0	20.0	285.0
Soft Red	—	—	.5	—	.5	9.0	22.0	43.0	40.0	115.0
STATE TOTAL	.8	5.5	12.2	4.5	42.0	80.0	55.0	140.0	60.0	400.0

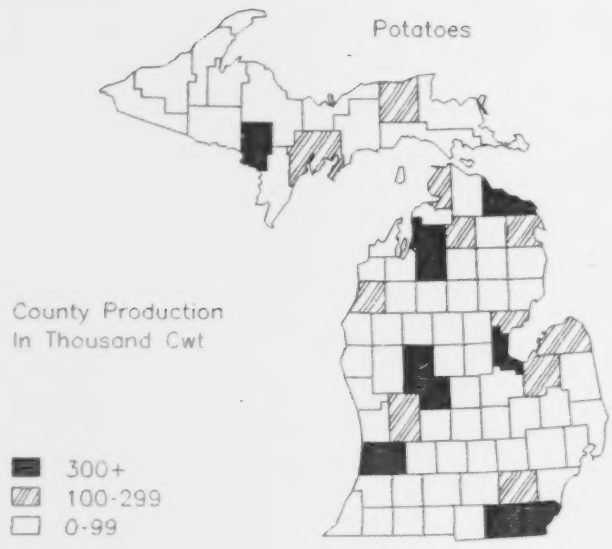
Michigan Wheat Acreage for Harvest by Class and Variety

CLASS & VARIETY	1987		1986		1985	
	Acres	*Percent*	*Acres*	*Percent*	*Acres*	*Percent*
Soft White Winter						
Augusta	84,000	21.0	155,000	22.8	138,000	18.4
Frankenmuth	173,000	43.3	345,000	50.7	395,000	52.7
Frederick	15,000	3.8	18,000	2.6	10,800	1.5
Genesee	[2]	[2]	6,500	1.0	4,000	.5
Ionia	[2]	[2]	2,000	.3	3,000	.4
Tecumseh	[2]	[2]	4,500	.7	7,700	1.0
Yorkstar	2,000	.5	2,000	.3	11,500	1.5
Unknown & Other[1]	11,000	2.7	12,000	1.8	30,000	4.0
TOTAL	285,000	71.3	545,000	80.2	600,000	80.0
Soft Red Winter						
Adder	1,500	.4	[2]	[2]	[2]	[2]
Adena	1,500	.4	[2]	[2]	[2]	[2]
Arthur	6,500	1.6	9,500	1.4	40,000	5.4
Becker	1,500	.4	[2]	[2]	[2]	[2]
Caldwell	17,000	4.2	21,000	3.1	10,500	1.4
Hart	6,000	1.5	1,000	.1	4,000	.5
Hillsdale	41,000	10.2	60,000	8.8	12,500	1.7
Pioneer 2550	16,000	4.0	30,000	4.4	39,000	5.2
Titan	6,000	1.5	8,000	1.2	22,000	2.9
Unknown & Other[1]	18,000	4.5	5,500	.8	22,000	2.9
TOTAL	115,000	28.7	135,000	19.8	165,000	20.6
STATE TOTAL	400,000	100.0	680,000	100.0	750,000	100.0

[1] Includes minor and unknown varieties.
[2] Included in other varieties.

Potatoes

Michigan remained tenth in 1986 among states in potato production, even though the crop was slashed by the heavy rains and flooding that hit central Michigan from mid-September to mid-October. Almost one-fourth of the State's planted acreage was unharvested. Montcalm and Bay are the leading counties in potato acreage. About 51 percent of the 1985 crop that was sold went for processing, 43 percent went for fresh market and 6 percent went for seed.



Total Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Cwt.*	*1,000 Cwt.*
1986	**42.0**	**266**	**11,190**
1985	57.8	262	15,136
1984	56.8	266	15,100
1983	52.8	228	12,023
1982	49.3	260	12,796

Production and Disposition

SEASON	Year	Production	Total Used for Seed[1]	Used on Farm Where Grown		Sold
				For Seed, Feed and Household Use	Shrink & Loss	
			1,000 Cwt.			
SUMMER	**1986**	**1,679**	[2]	[2]	[2]	[2]
	1985	3,036	266	53	343	2,640
	1984	2,560	273	69	199	2,292
	1983	2,183	260	66	87	2,030
	1982	2,266	240	86	104	2,076
FALL	**1986**	**9,511**	[2]	[2]	[2]	[2]
	1985	12,100	819	250	1,250	10,600
	1984	12,540	920	250	1,190	11,100
	1983	9,840	900	260	830	8,750
	1982	10,530	817	190	780	9,560
TOTAL	**1986**	**11,190**	[2]	[2]	[2]	[2]
	1985	15,136	1,085	303	1,593	13,240
	1984	15,100	1,193	319	1,389	13,392
	1983	12,023	1,160	326	917	10,780
	1982	12,796	1,057	276	884	11,636

[1] Includes seed purchased and seed used on farms where grown.
[2] Not available at publication time.

Fall Potato Stocks

CROP YEAR	December 1	January 1	February 1	March 1	April 1	May 1
			1,000 Cwt.			
1986	**5,600**	**4,600**	**3,900**	**2,600**	**1,300**	**500**
1985	8,000	6,600	5,300	4,100	2,600	1,500
1984	8,000	6,500	5,300	4,100	2,800	1,800
1983	6,600	5,400	4,400	3,300	2,100	1,000
1982	7,600	6,400	5,400	4,200	2,800	1,600

FRUIT

General Information

Michigan is one of the major fruit producing states in the Nation. This is largely due to the moderating influence that Lake Michigan has on the weather. The fruit industry is concentrated along the western coast of the Lower Peninsula where the "lake effect" is strongest. Cold air passing over the unfrozen lake in the winter is warmed while hot air passing over in the summer is cooled. The moderate climate that results is ideal for fruit production. The "lake effect" during spring also delays fruit tree bloom. This helps to lessen the possibility of freeze damage. Overall production of Michigan's seven major fruit crops during 1986 fell over 32 percent to just under 1.1 billion pounds. The growing season started with warm temperatures during early and mid-April which pushed the maturity of the fruit trees ahead of schedule. Then during late April and early May, temperatures dropped below freezing for several nights. These blossom killing freezes were the major reason for the sharp reduction in 1986 fruit production. Growing conditions after spring remained generally excellent throughout the State except for the heavy rains from mid-September through early October that hurt quality and slowed harvest of late season fruit crops. All fruit crops had lower production except prunes and plums which remained unchanged and pears which showed a significant increase. Overall, the value of Michigan's fruit production fell 17 percent.

1986 Orchard and Vineyard Survey

Results of the 1986 Orchard and Vineyard Survey conducted last fall and winter have been compiled on data obtained from approximately 3,000 Michigan fruit growers. Some of the highlights of that survey are shown below with comparable information from the 1982 survey. Inventories of apples, tart and sweet cherries, peaches, blueberries, prunes/plums, apricots and nectarines are up while pears and grapes have declined since 1982.

Apple tree numbers jumped by over 24 percent to 5.8 million trees. Growers continued replacing old standard trees with new dwarf and semi-dwarf trees. Dwarf and semi-dwarf trees were up 37 percent to 4.6 million while standard trees fell 9 percent. Trees five years old and older were up 27 percent from 1982. Tart cherry tree numbers climbed slightly to 4.6 million by late fall of 1986, an increase of 2 percent. The number of bearing trees was 35 percent above 1982. Sweet cherries showed a moderate gain of 4 percent. Bearing trees increased over 18 percent.

Peach tree numbers advanced 18 percent, and bearing trees nearly doubled since 1982. Blueberry plantings since the last survey was conducted in 1975 advanced 45 percent to the current level of 14,100 acres. Grape acreage fell by nearly 9 percent to 11,600 acres. The bearing acreage of grapes decreased by 8 percent. The number of prune/plum trees increased by 11 percent. Pear trees, at 165,000, fell by 11 percent. Both apricots and nectarines increased in number of trees.

A publication detailing tree numbers, ages, acreages and varieties will be available this fall upon request from the Michigan Agricultural Statistics Service.

Michigan 1986 Fruit Trees and Acres

FRUIT	1986			1982			Percent Change		
	Total Acreage	Total Trees	Bearing Trees[1]	Total Acreage	Total Trees	Bearing Trees[2]	Total Acres	Total Trees	Bearing Trees
								Percent	
Standard Apples	24,400	1,180,000	1,170,000	29,852	1,298,000	—	−18.3	−9.1	—
Dwarf/Semi-dwarf Apples	37,300	4,620,000	3,280,000	29,491	3,369,400	—	26.5	37.1	—
All Apples	61,700	5,800,000	4,450,000	59,343	4,667,400	3,500,000	4.0	24.3	27.1
Tart Cherries	44,000	4,600,000	3,500,000	46,719	4,500,000	2,600,000	−5.8	2.2	34.6
Sweet Cherries	10,700	920,000	740,000	10,696	887,000	625,000	.0	3.7	18.4
Peaches	8,800	1,050,000	790,000	8,331	887,000	400,000	5.6	18.4	97.5
Blueberries	14,100	—	12,900[3]	9,700[4]	—	8,500[4]	45.4	—	51.8
Grapes	11,600	—	11,500[3]	12,676	—	12,500	−8.5	—	−8.0
Prunes/Plums	3,900	415,000	335,000	3,794	373,800	275,000	2.8	11.0	21.8
Pears	1,700	165,000	155,000	1,950	184,900	180,000	−12.8	−10.8	−13.9
Apricots	240	23,000	19,000	207	17,400	—	15.9	32.2	—
Nectarines	175	23,000	14,500	146	15,100	—	19.9	52.3	—

[1] Bearing Trees are defined as 6 years and older for cherries, 5 years and older for apples and pears, and 4 years and older for peaches, plums, apricots and nectarines.
[2] Official USDA/NASS estimate of Bearing Acreage for Blueberries and Grapes and Bearing Trees for all other fruit.
[3] Bearing Acreage is defined as having bushes or vines 3 years and older.
[4] 1975 Estimate.

Trees, Acres, Production and Value

FRUIT	YEAR	Trees of Bearing Age		Production		Price Received	Value of Production
		Number	Acres	Total	Utilized		
		1,000	*1,000*	*Million Pounds*		*Dollars per Cwt.*	*1,000 Dollars*
APPLES[1]	**1986**	**4,450**	**47.3**	**700**	**700**	**9.70**	**68,000**
	1985	4,200	46.2	1,100	1,070	7.40	79,165
	1984	3,900	44.8	770	770	8.00	61,960
	1983	3,700	44.6	750	750	7.70	57,540
	1982	3,500	44.5	980	980	6.90	68,000
TART CHERRIES	**1986**	**3,500**	**33.3**	**170**	**165**	**23.40**	**38,583**
	1985[2]	3,250	31.6	220	215	21.90	47,145
	1984[2]	3,000	30.0	210	195	25.40	49,555
	1983	2,750	28.1	87	87	49.10	42,721
	1982	2,600	27.0	260	195	13.70	26,805
SWEET CHERRIES	**1986**	**740**	**8.6**	**40**	**40**	**28.80**	**11,520**
	1985	700	8.2	62	62	25.00	15,500
	1984	670	8.0	66	62	21.15	13,120
	1983	640	7.7	36	36	23.00	8,272
	1982	625	7.5	62	51	19.90	10,160
PEACHES	**1986**	**790**	**6.6**	**50**	**50**	**17.70**	**8,864**
	1985	680	5.9	55	55	20.90	11,515
	1984	600	5.4	45	45	17.10	7,700
	1983	485	4.5	35	35	21.50	7,526
	1982	400	3.8	50	50	20.90	10,459
				Tons		*Dollars per Ton*	
GRAPES[3]	**1986**	**5,400**	**11.5**	**32,000**	**32,000**	**255**	**8,164**
	1985	5,500	11.8	51,000	51,000	215	10,952
	1984	5,650	12.0	49,000	49,000	166	8,131
	1983	5,750	12.2	60,000	60,000	194	11,662
	1982	5,900	12.5	58,500	58,500	201	11,758
PEARS	**1986**	**155**	**1.6**	**11,000**	**11,000**	**233**	**2,558**
	1985	160	1.7	8,000	8,000	242	1,933
	1984	165	1.7	11,000	11,000	219	2,404
	1983	175	1.8	8,000	8,000	237	1,899
	1982	180	1.9	12,000	11,000	220	2,418
PRUNES AND PLUMS	**1986**	**335**	**3.2**	**11,000**	**11,000**	**243**	**2,668**
	1985	315	3.0	11,000	11,000	299	3,285
	1984	300	2.9	12,000	12,000	276	3,310
	1983	280	2.8	12,000	12,000	197	2,366
	1982	275	2.8	10,000	10,000	256	2,565

[1] Commercial
[2] Production defined as "production available for harvest"
[3] Vines of bearing age

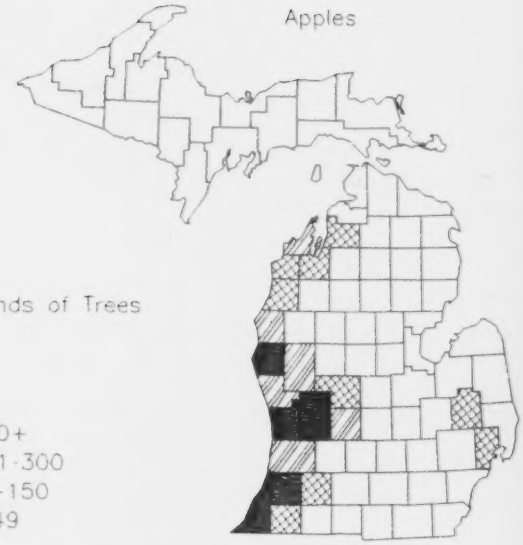
Fruit Total Acreage, Production and Value[1]

YEAR	Acres of Bearing Age	Production		Value of Utilized Production	
		Total	Utilized	Average	Total
	1,000	*Million Pounds*		*Dollars per Cwt.*	*1,000 Dollars*
1986	**112.1**	**1,068**	**1,063**	**13.20**	**140,357**
1985	108.4	1,577	1,542	10.99	169,495
1984	104.8	1,235	1,216	12.02	146,180
1983	101.7	1,068	1,068	12.36	131,986
1982	100.0	1,513	1,435	9.21	132,165

[1] Includes apples, peaches, tart cherries, sweet cherries, pears, prunes-plums and grapes

Apples

Michigan apple production at 700 million pounds was 36 percent below last year's State record. Late April and early May frosts significantly reduced early variety apples. Weather conditions for late varieties turned ideal for fruit set and sizing, but record rains during September caused harvest delays and quality concerns. New bearing trees, which have increased by 48 percent since 1979, helped limit the production decrease. Total value of production was 14 percent below 1985. The majority of the State's crop is processed, with juice and cider being the main utilization.



Trees, Production and Value[1]

YEAR	Trees of Bearing Age	Total Production	Value of Production
	1,000	*Million Pounds*	*1,000 Dollars*
1986	**4,450**	**700**	**68,000**
1985	4,200	1,100	79,165
1984	3,900	770	61,960
1983	3,700	750	57,540
1982	3,500	980	68,000

[1] Commercial

Production, Utilization and Price

YEAR	Total Production	Fresh Market		Processing		Total Utilization	
		Quantity	Price per Pound	Quantity	Price per Pound	Quantity	Price per Pound
	Million Pounds	*Million Pounds*	*Cents*	*Million Pounds*	*Cents*	*Million Pounds*	*Cents*
1986	**700**	[1]	[1]	[1]	[1]	**700**	**9.70**
1985	1,100	435	10.90	635	5.00	1,070	7.40
1984	770	290	11.60	480	5.90	770	8.00
1983	750	270	11.00	480	5.80	750	7.70
1982	980	365	9.70	615	5.25	980	6.90

[1] Not available at publication time

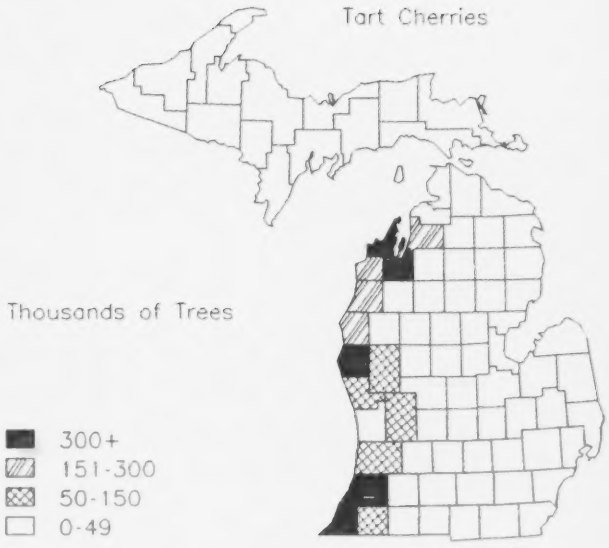
Processing Apple Utilization and Prices

YEAR	Canned		Frozen		Juice and Cider		Other	
	Quantity	Price per Pound	Quantity	Price per Pound	Quantity	Price per Pound	Quantity	Price per Pound
	Million Pounds	*Cents*	*Million Pounds*	*Cents*	*Million Pounds*	*Cents*	*Million Pounds*	*Cents*
1986	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
1985	205	6.50	88	7.10	340	3.60	2	4.70
1984	138	6.90	85	8.30	253	4.60	4	5.50
1983	115	6.20	82	9.00	278	4.70	5	5.10
1982	143	6.35	96	7.20	367	4.30	9	6.00

[1] Not available at publication time

Tart Cherries

The 1986 tart cherry production in Michigan totaled 170 million pounds, down 23 percent from the previous year. Early season frosts were the main reason for the reduced output. This cold weather affected the southwest and west central producing areas of the State more than the northwest. The crop's total value was 18 percent lower than the previous year. This decline was due solely to the 23 percent decrease in utilized production from 1985. Michigan continues to maintain its status as the Nation's leading producer of tart cherries with almost 76 percent of the U.S. output. There continues to be substantial increases in bearing trees due to heavy plantings in the late 1970's and early 1980's. Bearing trees have increased almost 37 percent from 1982. This trend is expected to continue at least for the next few years.



Production by Region

REGION	1986[1]	1985[1]	1984	1983	1982
	Million Pounds				
Northwest	**125**	105	115	50	137
West Central	**25**	70	45	12	64
Southwest	**19**	44	48	24	57
Other	**1**	1	2	1	2
State Total	**170**	220	210	87	260

[1] Production defined as production available for harvest

Trees, Acres, Production and Value

YEAR	Trees of Bearing Age		Production		Price Received	Value of Production
	Number	Acres	Total	Utilized		
	1,000	*1,000*	*Million Pounds*		*Dollars per Cwt.*	*1,000 Dollars*
1986[1]	**3,500**	**33.3**	**170**	**165**	**23.40**	**38,583**
1985[1]	3,250	31.6	220	215	21.90	47,145
1984[1]	3,000	30.0	210	195	25.40	49,555
1983	2,750	28.1	87	87	49.10	42,721
1982	2,600	27.0	260	195	13.70	26,805

[1] Production defined as production available for harvest

Production and Utilization

YEAR	Total Production	Utilized Production	Fresh Market	Utilization of Sales Processed		
				Canned	Frozen	Other
	Million Pounds					
1986[1]	**170**	**165**	**3**	**30**	**124**	**8**
1985[1]	220	215	5	45	162	3
1984[1]	210	195	5	54	130	6
1983	87	87	2	18	65	2
1982	260	195	5	55	132	3

[1] Production defined as production available for harvest

Sweet Cherries

The 1986 Michigan sweet cherry production was down 35 percent from the previous year. Freezing temperatures during late April and early May combined with heavy rains at harvest time caused this substantial decrease. Sweet cherry value was down 26 percent from 1985. Michigan ranks third nationally in the production of sweet cherries. Bearing tree numbers have remained constant since 1982.

Production and Utilization

YEAR	Total Production	Utilized Production	
		Fresh	Processed
	Million Pounds		
1986	**40**	**8**	**32**
1985	62	6	56
1984	66	6	56
1983	36	4	32
1982	62[1]	4	47

[1] Total production includes unutilized production of 11 million lbs. (8 million lbs. unharvested, 3 million lbs. harvested not sold.)

Grapes

The Michigan grape harvest decreased 37 percent and was the lowest production since 1976. The grape crop was adversely affected by the late April and early May frosts and heavy rains prior to and during harvest. Number of bunches and berries per bunch were both down from last year. Berry weight per vine showed a gain from 1985. The Concord variety accounts for almost 90 percent of Michigan's production. Most of the State's grape crop is processed into juice. A small but significant wine industry has developed in the State. Michigan was the Nation's fifth largest producer of grapes in 1986.

Vines, Acres, Production and Value

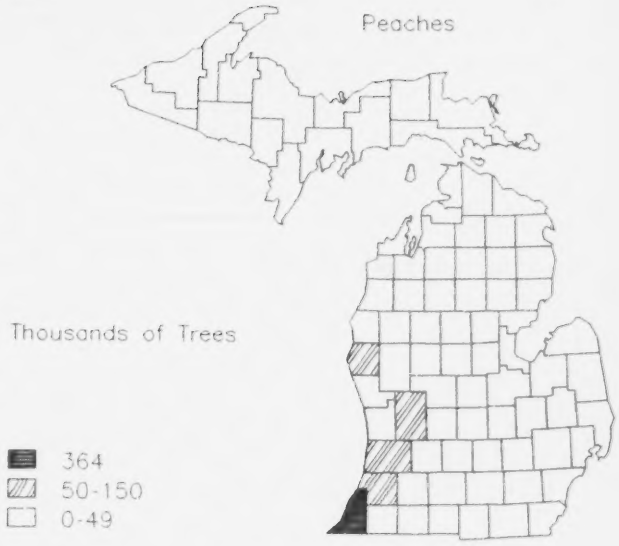
YEAR	Vines of Bearing Age		Production		Price Received	Value of Production
	Number	Acres	Total	Utilized		
	1,000	*1,000*	*Tons*		*Dollars per Ton*	*1,000 Dollars*
1986	**5,400**	**11.5**	**32,000**	**32,000**	**255**	**8,164**
1985	5,500	11.8	51,000	51,000	215	10,952
1984	5,650	12.0	49,000	49,000	166	8,131
1983	5,750	12.2	60,000	60,000	194	11,662
1982	5,900	12.5	58,500	58,500	201	11,758

Production and Utilization

YEAR	Total Production	Utilized Production	Fresh Market Utilization	Processed Utilization	
				Juice	Wine
			Tons		
1986	**32,000**	**32,000**	**1,000**	**29,500**	**1,500**
1985	51,000	51,000	1,500	47,500	2,000
1984	49,000	49,000	1,700	45,900	1,400
1983	60,000	60,000	1,800	55,000	3,200
1982	58,500	58,500	2,000	53,400	3,100

Peaches

The 1986 peach crop withstood the spring frosts better than most of Michigan's other fruit crops. Production was down 9 percent from a year ago, but fruit size and quality were excellent. Crop value was down about 23 percent. Growers have increased the rate of new plantings and bearing trees have risen 63 percent since 1982. Michigan ranked sixth among peach producing states during 1986.



Prunes and Plums

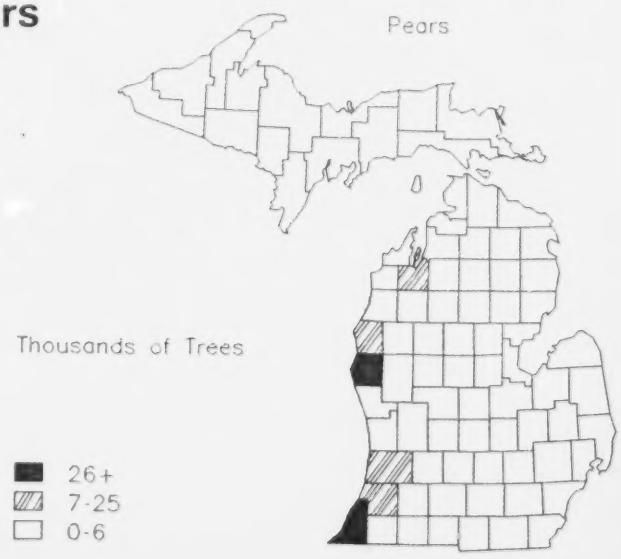
Michigan's prune-plum production was affected very little by the spring frosts and remained unchanged from the previous year. The early spring frosts had little affect on crop potential. Fruit size and quality were excellent. Crop value decreased by 19 percent. Michigan was the Nation's third leading producer of prune-plums in 1986. Bearing tree numbers have remained unchanged since 1982. New plantings during the late 70's and early 80's have helped stabilize the bearing tree numbers.

Production and Utilization

YEAR	Total Production	Utilized Production	
		Fresh	Processed
	Tons		
1986	**11,000**	**5,500**	**5,500**
1985	11,000	4,400	6,600
1984	12,000	5,500	6,500
1983	12,000	5,800	6,200
1982	10,000	5,900	4,100

Pears

The 1986 Michigan pear crop increased 38 percent from the previous year. Price per ton was down 4 percent, but total value was up 32 percent. This was the first year since 1971 that bearing pear tree numbers have not declined. An 86 percent reduction in bearing trees has been noted during this time. Michigan remains the Nation's fifth largest pear producing state.



VEGETABLES

Michigan vegetable growers produced over 11.6 million hundredweight (cwt.) of fresh and processing vegetables, excluding strawberries, in 1986. This represents a 19 percent decrease from 1985. Growing conditions were hampered by wind, cold and wet weather early in the season. Central Michigan experienced 26 days of rain in September and this caused waterlogged fields and extensive acreage was abandoned. The hardest hit crops were carrots, cauliflower, celery and onions. The yields were also reduced for most crops. Harvested acreage totaled 99,400 acres, an 8 percent decrease from 1985. Value of production for all vegetables was $109.5 million, a 12 percent decrease from last year.

Most of the state's vegetables are grown in the southern half of the Lower Peninsula. Michigan's muck soils are utilized for growing crops such as onions, carrots, celery and lettuce. There are ample markets for both processing and fresh market vegetables. Processing vegetables are utilized by both in and out of state processors. Michigan grown produce is shipped to major markets throughout the nation.

Total Vegetable Acreage, Production and Value

YEAR	Acres Planted	Acres Harvested	Production	Value
			1,000 Cwt.	*1,000 Dollars*
1986[1]	**111,700**	**99,400**	**11,656**	**109,498**
1985[1]	113,800	107,800	14,437	124,976
1984[1]	110,800	106,200	15,189	133,415
1983[2]	66,700	64,400	11,675	114,739
1982[2]	66,900	64,300	12,472	90,744

[1] Includes asparagus, carrots, cauliflower, celery, sweet corn, lettuce, onions, tomatoes, processing snap beans, processing green peas and cucumbers for pickles.
[2] All crops included in footnote one except asparagus and cucumbers for pickles.

Dual Purpose Vegetable Disposition and Value[1]

CROP	Year	Fresh Market			Processing		
		Production	Price Received	Value of Production	Production	Price Received	Value of Production
		1,000 Cwt.	*Dollars per Cwt.*	*1,000 Dollars*	*Tons*	*Dollars per Ton*	*1,000 Dollars*
ASPARAGUS	**1986**	**48**	**67.60**	**3,245**	**9,880**	**1,120.00**	**11,066**
	1985	36	71.00	2,556	9,720	1,118.00	10,867
	1984	38	66.00	2,508	9,600	1,126.00	10,810
	1983[2]	—	—	—	—	—	—
	1982[2]	—	—	—	—	—	—
CARROTS	**1986**	**494**	**16.10**	**7,953**	**21,560**	**57.30**	**1,235**
	1985	1,110	13.20	14,652	27,710	57.60	1,596
	1984	1,425	13.20	18,810	30,000	51.70	1,551
	1983	1,133	15.30	17,335	26,130	48.40	1,265
	1982	1,092	10.30	11,248	30,860	52.50	1,620
STRAWBERRIES	**1986**	**78**	**48.10**	**3,752**	**3,300**	**792.00**	**2,614**
	1985[3]	100	42.90	4,290	3,150	638.00	2,010
	1984	146	41.40	6,044	2,150	480.00	1,032
	1983	115	55.00	6,325	2,350	888.00	2,087
	1982	173	55.00	9,515	2,150	912.00	1,961

[1] Disposition data not publishable for cauliflower and celery.
[2] No estimates made.
[3] Total production excludes 23,000 cwt. not harvested because of economic conditions.

Dual Purpose Vegetable Acreage, Production and Value

CROP	Year	Acres		Production		Price Received	Value of Production
		Planted	Harvested	Per Acre	Total		
				Cwt.	*1,000 Cwt.*	*Dollars per Cwt.*	*1,000 Dollars*
ASPARAGUS	**1986**	**21,000**	**20,500**	**12**	**246**	**58.20**	**14,311**
	1985	20,000	19,200	12	230	58.40	13,423
	1984	20,000	19,200	12	230	57.90	13,318
	1983[1]	—	—	—	—	—	—
	1982[1]	—	—	—	—	—	—
CARROTS	**1986**	**7,400**	**3,700**	**250**	**925**	**9.93**	**9,188**
	1985	7,400	6,400	260	1,664	9.76	16,248
	1984	7,600	7,500	270	2,025	10.10	20,361
	1983	7,400	7,200	230	1,656	11.20	18,600
	1982	7,500	6,700	255	1,709	7.53	12,868
CAULIFLOWER	**1986**	**1,800**	**700**	**55**	**39**	**39.50**	**1,539**
	1985	1,700	1,500	65	98	33.90	3,324
	1984	1,600	1,500	65	98	35.10	3,441
	1983	1,600	1,400	55	77	35.30	2,717
	1982	1,600	1,500	58	87	29.50	2,569
CELERY	**1986**	**3,300**	**2,600**	**400**	**1,040**	**14.00**	**14,521**
	1985	3,400	3,200	410	1,312	10.60	13,844
	1984	4,000	3,900	400	1,560	9.87	15,403
	1983	3,600	3,500	370	1,295	12.70	16,504
	1982	3,500	3,300	470	1,551	10.60	16,400
STRAWBERRIES	**1986**	**2,500**	**2,400**	**60**	**144**	**44.20**	**6,366**
	1985	2,600	2,500	65	163[2]	38.70	6,300
	1984	2,800	2,700	70	189	37.40	7,076
	1983	2,800	2,700	60	162	51.90	8,412
	1982	2,800	2,700	80	216	53.10	11,476

[1] No estimates made.
[2] Total production excludes 23,000 cwt. not harvested because of economic conditions.

Processing Vegetable Acreage, Production and Value[1]

CROP	Year	Acres		Production		Price Received	Value of Production
		Planted	Harvested	Per Acre	Total		
				Tons		*Dollars per Ton*	*1,000 Dollars*
SNAP BEANS	**1986**	**18,000**	**17,600**	**2.40**	**42,240**	**143.00**	**6,040**
	1985	19,000	18,700	2.60	48,620	158.00	7,682
	1984	18,400	17,500	2.80	49,000	136.00	6,664
	1983	15,100	14,800	2.80	41,440	144.00	5,967
	1982	14,600	14,200	2.58	36,640	145.00	5,313
CUCUMBERS FOR PICKLES	**1986**	**25,000**	**24,000**	**5.80**	**139,200**	**146.00**	**20,323**
	1985	25,000	24,000	5.60	134,400	158.00	21,235
	1984	22,000	21,300	5.50	117,150	147.00	17,221
	1983[2]	—	—	—	—	—	—
	1982[2]	—	—	—	—	—	—
TOMATOES	**1986**	**5,900**	**5,400**	**24.70**	**133,380**	**76.00**	**10,137**
	1985	6,800	6,600	25.20	166,320	80.00	13,306
	1984	8,000	7,400	23.50	173,900	84.00	14,608
	1983	9,300	9,200	19.90	183,080	84.00	15,379
	1982	9,800	9,700	21.10	204,670	92.60	18,952

[1] Green peas and sweet corn not published to avoid disclosure of individual operations.
[2] No estimates made.

Fresh Market Vegetable Acreage, Production and Value

CROP	Year	Acres		Production		Price Received	Value of Production[1]
		Planted	Harvested	Per Acre	Total		
				Cwt.	*1,000 Cwt.*	*Dollars per Cwt.*	*1,000 Dollars*
SWEET CORN	**1986**	**13,300**	**11,700**	**60**	**702**	**10.50**	**7,371**
	1985	13,300	12,000	65	780	12.40	9,672
	1984	13,300	12,300	65	800	10.80	8,640
	1983	13,300	12,800	70	896	11.10	9,946
	1982	13,300	13,000	66	858	8.81	7,559
LETTUCE	**1986**	**1,300**	**1,200**	**200**	**240**	**16.70**	**4,008**
	1985	1,300	1,200	250	300	17.50	5,250
	1984	1,200	1,100	235	259	15.70	4,066
	1983	1,600	1,200	190	228	15.00	3,420
	1982	1,600	1,500	250	375	13.80	5,175
ONIONS	**1986**	**8,000**	**5,700**	**290**	**1,653**	**13.00**	**14,989**
	1985	8,400	7,800	325	2,535	6.96	14,164
	1984	8,600	8,500	345	2,933	6.80	16,898
	1983	8,400	8,300	310	2,573	14.30	30,373
	1982	8,200	8,000	320	2,560	6.11	12,941
TOMATOES	**1986**	**3,400**	**3,000**	**95**	**285**	**21.90**	**6,242**
	1985	3,500	3,200	100	320	17.20	5,504
	1984	3,600	3,500	120	420	28.80	12,096
	1983	3,600	3,300	120	396	28.10	11,128
	1982	3,800	3,500	115	403	19.60	7,899

[1] For onions — Value of Sales

Mushrooms

Michigan mushroom production increased 3 percent during the fiscal year ending June 30, 1986. A 10 percent decrease in square footage was more than offset by a 15 percent increase in yield. Michigan's mushrooms are grown in specially built mushroom houses where humidity and temperatures are carefully controlled year-round. The available square footage can be filled three or more times during the year to account for the total area in production. Michigan is the Nation's third ranking mushroom producing state.

Area, Production and Value

YEAR	Total Area in Production	Production	Yield per Square Foot	Price per Pound	Value of Production
	1,000 Sq. Ft.	*1,000 Pounds*	*Pounds*	*Cents*	*1,000 Dollars*
1985-86	**4,060**	**20,171**	**4.97**	**83.1**	**16,758**
1984-85	4,504	19,501	4.33	83.5	16,276
1983-84	4,709	17,506	3.72	93.5	16,365
1982-83	5,911	18,865	3.19	83.0	15,661
1981-82	5,292	19,044	3.60	70.6	13,436

FLORICULTURE

Michigan placed fifth nationally during 1986 in wholesale value of floriculture crops. Reports from 383 commercial growers in Michigan indicated total wholesale sales of all surveyed floriculture crops was $84 million for 1986. A commercial grower is defined as one who had $10,000 or more in gross sales of cut flowers, foliage and flowering plants, bedding plants or cultivated florist greens. The State's cut flower industry had a 22 percent increase in wholesale value of sales in 1986 compared to the previous year. Michigan continued to lead the nation in production of potted geraniums (seed), plus flowering and vegetable bedding plants. Bedding plants were the leading revenue producer in 1986 accounting for 44 percent of Michigan's total value of wholesale sales. Michigan also had 20 million square feet of greenhouse cover in 1986; this includes both permanent glass and film plastic greenhouses.

Area of Production and Average Value

PLANT	Production Area			Average Value of Production Area[1]		
	1986	1985	1984	1986	1985	1984
	1,000 Sq. Ft.			*Dollars per Sq. Ft.*		
FOLIAGE PLANTS[2]:						
All[3]	**400**	470	1,380	**5.03**	4.85	3.80
BEDDING PLANTS[2]:						
Flowering & Foliar[4]	**11,220**	9,750	10,110	**2.71**	2.82	2.74
Vegetable	**1,905**	1,995	2,600	**2.53**	2.64	2.52
Geraniums	**460**	435	—	**3.84**	4.57	—
POTTED PLANTS[2]:						
Chrysanthemums	**1,075**	1,195	1,520	**3.76**	3.39	3.34
Azaleas	**125**	—	—	**6.55**	—	—
Poinsettias	**3,405**	3,525	3,430	**2.26**	1.99	1.94
African Violets	**95**	125	—	**7.64**	6.38	—
Easter Lilies[5]	**510**	600	495	**5.23**	4.43	4.79
Other Lilies	**23**	21	—	**4.61**	5.52	—
Hardy/Garden Mums	**545**	580	—	**1.40**	1.64	—
Geraniums (Cuttings)[6]	**1,510**	1,400	2,450	**3.08**	3.06	2.79
Geraniums (Seed)	**1,365**	1,345	—	**3.72**	3.36	—
Other Flowering Plants	**565**	465	—	**3.25**	4.72	—
Other Flowering & Foliar Type Bedding Plants	**460**	420	—	**3.10**	2.86	—
Vegetable Type Bedding Plants	**55**	60	—	**4.02**	4.25	—
CUT FLOWERS:						
Chrysanthemums, Standard	**43**	55	125	**2.02**	2.02	2.52
Pompon	**145**	165	190	**3.13**	3.38	2.51
Roses, Hybrid Tea	**440**	420	460	**6.48**	6.12	5.54
Sweetheart	**135**	185	215	**7.33**	6.57	5.24
Other Cut Flowers	**2,467**	390	—	**1.10**	.87	—
	Acres			*Dollars per Acre*		
Gladioli	**685**	720	640	**3,445**	3,360	3,305

[1] Based on Value of Sales at Wholesale, except foliage which is based on Net Value of Sales.
[2] 1986 data is not comparable to other years due to changing time held from 6 weeks to 4 weeks for "plants purchased from others."
[3] 1984 data includes foliage hanging baskets.
[4] 1984 data includes all flowering and foliar type bedding plants.
[5] 1984 data includes all potted lilies.
[6] 1984 data includes all potted geraniums.

Bedding Plant and Flower Production and Sales

CROP	YEAR	Producers with Sales Over $10,000	Sales		Percent of Sales at Wholesale	Wholesale Price	Value of Sales at Wholesale[1]
			Unit	Quantity			
		Number		*1,000*	*Percent*	*Dollars*	*1,000 Dollars*
BEDDING PLANTS[2]:							
Flowering & Foliar[3]	**1986**	**303**	**Flat**	**6,215**	**86**	**4.90**	**30,454**
	1985	299	Flat	5,660	85	4.85	27,451
	1984	335	Flat	5,835	84	4.75	27,716
Vegetable	**1986**	**282**	**Flat**	**1,005**	**80**	**4.80**	**4,824**
	1985	280	Flat	1,120	80	4.70	5,264
	1984	303	Flat	1,425	81	4.60	6,555
Geraniums	**1986**	**91**	**Flat**	**260**	**79**	**6.80**	**1,768**
	1985	79	Flat	280	88	7.10	1,988
POTTED PLANTS[2]:							
Chrysanthemums	**1986**	**80**	**Pot**	**1,325**	**93**	**3.05**	**4,041**
	1985	77	Pot	1,350	93	3.00	4,050
	1984	128	Pot	1,880	91	2.70	5,076
Azaleas	**1986**	**46**	**Pot**	**145**	**89**	**5.65**	**819**
Poinsettias	**1986**	**157**	**Pot**	**2,365**	**89**	**3.25**	**7,686**
	1985	163	Pot	2,545	87	2.75	6,999
	1984	171	Pot	2,335	84	2.85	6,655
African Violets	**1986**	**26**	**Pot**	**660**	**94**	**1.10**	**726**
	1985	25	Pot	840	95	.95	798
Easter Lilies[4]	**1986**	**101**	**Pot**	**875**	**93**	**3.05**	**2,669**
	1985	99	Pot	885	94	3.00	2,655
	1984	111	Pot	790	94	3.00	2,370
Other Lilies	**1986**	**27**	**Pot**	**40**	**67**	**2.65**	**106**
	1985	19	Pot	40	88	2.90	116
Hardy/Garden Mums	**1986**	**112**	**Pot**	**695**	**77**	**1.10**	**765**
	1985	93	Pot	680	82	1.40	952
Geraniums (Cuttings)[5]	**1986**	**242**	**Pot**	**4,225**	**67**	**1.10**	**4,648**
	1985	216	Pot	4,085	64	1.05	4,289
	1984	315	Pot	9,750	79	.70	6,825
Geraniums (Seed)	**1986**	**142**	**Pot**	**7,820**	**94**	**.65**	**5,083**
	1985	131	Pot	6,950	92	.65	4,518
Other Flowering Plants	**1986**	**76**	**Pot**	**895**	**89**	**2.05**	**1,835**
	1985	[6]	Pot	890	89	2.46	2,193
Other Flowering & Foliar Type Bedding Plants	**1986**	**108**	**Pot**	**1,680**	**79**	**.85**	**1,428**
	1985	100	Pot	1,600	83	75	1,200
Vegetable Type Bedding Plants	**1986**	**54**	**Pot**	**210**	**32**	**1.05**	**221**
	1985	52	Pot	255	51	1.00	255
HANGING BASKETS[2]:							
Flowering	**1986**	**183**	**Baskets**	**825**	**90**	**5.35**	**4,414**
	1985	186	Baskets	700	90	5.40	3,780
Foliage	**1986**	**75**	**Baskets**	**385**	**95**	**4.05**	**1,559**
	1985	101	Baskets	405	95	4.20	1,701

Bedding Plant and Flower Production and Sales (Continued)

CROP	YEAR	Producers with Sales Over $10,000	Sales		Percent of Sales at Wholesale	Wolesale Price	Value of Sales at Wholesale[1]
			Unit	Quantity			
		Number		*1,000*	*Percent*	*Dollars*	*1,000 Dollars*
CUT FLOWERS:							
Chrysanthemums,							
Standard	**1986**	**22**	**Bloom**	**145**	**63**	**.60**	**87**
	1985	31	Bloom	170	36	.65	111
	1984	42	Bloom	525	48	.60	315
Pompon	**1986**	**42**	**Bunch**	**165**	**49**	**2.75**	**454**
	1985	47	Bunch	210	43	2.65	557
	1984	54	Bunch	180	45	2.65	477
Roses,							
Hybrid Tea	**1986**	**10**	**Bloom**	**4,750**	**99**	**.60**	**2,850**
	1985	10	Bloom	4,670	99	.55	2,569
	1984	16	Bloom	5,100	97	.50	2,550
Sweetheart	**1986**	**7**	**Bloom**	**2,200**	**99**	**.45**	**990**
	1985	7	Bloom	2,700	99	.45	1,215
	1984	8	Bloom	3,220	99	.35	1,127
Gladioli	**1986**	**15**	**Spike**	**23,600**	**100**	**.10**	**2,360**
	1985	15	Spike	20,160	100	.12	2,419
	1984	17	Spike	19,230	99	.11	2,115
Other Cut Flowers	**1986**	**49**	—	—	**80**	—	**2,150**
	1985	[6]	—	—	61	—	428

[1] Equivalent wholesale value of all sales.
[2] 1986 data is not comparable to other years due to changing time held from 6 weeks to 4 weeks for plants purchased from others.
[3] 1984 data includes all flowering and foliar type bedding plants.
[4] 1984 data includes all potted lilies.
[5] 1984 data includes all potted geraniums.
[6] Not available.

Foliage Plant Production and Sales[1]

YEAR	Producers with Sales Over $10,000	Square Feet in Production	Net Value of Sales[2]	Sales at Wholesale
	Number	*1,000 Sq. Ft.*	*1,000 Dollars*	*Percent*
1986	**52**	**400**	**2,010**	**73**
1985	69	470	2,280	81
1984[3]	167	1,380	5,245	70

[1] 1986 data is not comparable to other years due to changing time held from 6 weeks to 4 weeks for plants purchased from others.
[2] Gross value of sales less cost of plant material purchased from others.
[3] Data includes foliage hanging baskets.

Growers and Growing Area

YEAR	Total Number of Growers[1]	Glass, Fiberglass and Other Rigid Greenhouses[1]	Film Plastic (Single/Double) Greenhouses[1]	Total Greenhouse Cover[2]
1986	**383**	**8,000**	**12,000**	**20,000**
1985	—	—	—	19,000

[1] Estimates begun for 1986.
[2] All greenhouse space only for 1985.

LIVESTOCK AND POULTRY

General Information

Livestock and associated products accounted for 46 percent of the total cash receipts from farming in Michigan during 1986. Total livestock cash receipts declined 1 percent from 1985 due to the sharp drop in dairy receipts. This drop was nearly offset by higher receipts from cattle, hog and sheep marketings. Receipts from 1986 marketings of meat animals exceeded $439 million, up 6 percent from a year earlier. Higher average market prices for hogs and sheep and increased liveweight marketed for cattle and calves resulted in the higher receipts. Continuing declines in feed costs contributed to improved returns to many livestock producers.

Returns to hog producers showed significant improvement during 1986, as hog cash receipts increased 10 percent. Average market hog prices reached their highest level since 1982. The December hog inventory was up 5 percent and the larger breeding herd signalled more expansion during 1987. The rate of expansion in hog numbers has been slower than anticipated and has also been slow when compared with past expansion periods. Cattle inventories declined for the fourth straight year during 1986, but marketings and cash receipts increased. The Dairy Termination Program accelerated the decline in cattle inventory. Dairy cows, heifers and calves comprised a larger portion of cattle and calf marketings resultings in higher average slaughter liveweights for cattle and calves. Cattle and calf marketings (liveweight basis) were up 7 percent. Cattle market prices declined due largely to the drop in slaughter cow prices, but calf prices increased. Sheep inventory and marketings declined again but sheep receipts rose 1 percent due to record high sheep and lamb prices.

Egg production decreased during 1986 but higher egg prices resulted in an 8 percent gain in receipts. Steady prices and higher production led to a 15 percent increase in turkey receipts. Honey production statistics were reinstated during 1986. The 1986 honey crop totaled 4.5 million pounds and was valued at $2.2 million. The raising of Angora goats for mohair production is a growing livestock enterprise in Michigan.

Cattle and Calves

The decline in Michigan cattle numbers continued during 1986. The January 1, 1987 inventory of 1,325,000 head was down 6 percent from a year earlier and was the lowest inventory since 1980. The Dairy Termination Program, which started April 1, 1986, contributed significantly to the reduced cattle numbers. Milk cow numbers fell 7 percent and the milk replacement heifer inventory was down 3 percent. The beef replacement heifer inventory showed a sharp increase, indicating a possible end to the recent decline in beef cow numbers. Cattle on full feed for slaughter market totaled 200,000 head on January 1, up 14 percent. This was the highest fed cattle count since 1978, as increased cattle feeding by dairy farmers contributed to the higher inventory. Cash receipts from cattle marketings increased 4 percent during 1986. Total liveweight marketed increased, offsetting lower cattle market prices. Commercial cattle slaughter (liveweight basis) increased 1 percent.

Balance Sheet

YEAR	On Hand January 1, All Cattle and Calves	Calf Crop	Inship-ments	Marketings[1]		Farm Slaughter[2]	Deaths		On Hand Following January 1, All Cattle and Calves
				Cattle	Calves	Cattle and Calves	Cattle	Calves	
	1,000 Head								
1986	**1,410**	**500**	**60**	**430**	**104**	**6**	**28**	**77**	**1,325**
1985	1,450	540	60	455	74	6	25	80	1,410
1984	1,475	525	100	480	56	9	25	80	1,450
1983	1,500	525	130	480	68	10	27	95	1,475
1982	1,450	550	135	444	56	11	34	90	1,500

[1] Includes custom slaughter and state outshipments, but excludes interfarm sales within Michigan.
[2] Excludes custom slaughter for farmers at commercial establishments.

Number on Farms by Class and Number of Operations, January 1

CLASS	1987	1986	1985	1984	1983
			1,000 Head		
Cows and Heifers that have Calved	**520**	550	550	560	595
Beef Cows	**150**	153	160	158	195
Milk Cows	**370**	397	390	402	400
Heifers, 500 pounds and over	**278**	260	274	282	290
For Beef Cow replacement	**37**	23	32	36	52
For Milk Cow replacement	**187**	192	195	180	186
Other Heifers	**54**	45	47	66	52
Steers, 500 pounds and over	**210**	215	210	230	193
Bulls, 500 pounds and over	**17**	20	22	23	24
Calves, less than 500 pounds	**300**	365	394	380	398
All Cattle and Calves	**1,325**	1,410	1,450	1,475	1,500
Number of Cattle Operations[1]	**28,000**	30,000	31,000	32,000	33,000

[1] Any place having one or more head on hand at any time during the year.

Commercial Slaughter

YEAR OR MONTH	Cattle			Calves		
	Head	Liveweight		Head	Liveweight	
		Per Head	Total		Per Head	Total
	1,000	*Pounds*	*1,000 Pounds*	*1,000*	*Pounds*	*1,000 Pounds*
1986 January	**39.3**	**1,171**	**46,071**	**10.0**	**305**	**3,054**
February	**29.7**	**1,238**	**36,821**	**7.4**	**303**	**2,226**
March	**29.5**	**1,264**	**37,309**	**7.9**	**295**	**2,344**
April	**37.0**	**1,246**	**46,100**	**8.9**	**300**	**2,681**
May	**36.4**	**1,223**	**44,538**	**8.5**	**316**	**2,688**
June	**33.9**	**1,242**	**42,048**	**8.4**	**317**	**2,647**
July	**37.5**	**1,252**	**46,988**	**9.4**	**325**	**3,059**
August	**35.5**	**1,263**	**44,804**	**7.2**	**338**	**2,423**
September	**31.5**	**1,251**	**39,426**	**7.6**	**323**	**2,466**
October	**39.4**	**1,232**	**48,548**	**8.7**	**322**	**2,783**
November	**33.9**	**1,213**	**41,135**	**7.6**	**326**	**2,491**
December	**39.6**	**1,244**	**49,232**	**8.6**	**314**	**2,690**
1986[1]	**423**	**1,236**	**523,022**	**100**	**315**	**31,553**
1985	473	1,098	519,738	105	274	28,666
1984	595	1,094	650,304	81	243	19,631
1983	537	1,145	614,551	75	235	17,513
1982	555	1,168	648,062	74	234	17,316

[1] Months may not add exactly to annual totals because of rounding.

Cattle and Calves Production and Income

YEAR	Production[1]	Marketings[2]	Average Price per Cwt.		Value of Production	Cash Receipts[3]	Value of Home Consumption	Gross Income
			Cattle	Calves				
	1,000 Pounds		*Dollars*			*1,000 Dollars*		
1986	**466,085**	**529,460**	**44.50**	**55.00**	**208,730**	**238,955**	**11,229**	**250,184**
1985	463,485	493,950	46.30	53.30	215,373	230,022	12,890	242,912
1984	454,130	513,440	48.20	54.10	219,996	248,224	13,002	261,226
1983	461,000	532,680	47.20	57.00	218,661	252,844	16,660	269,504
1982	461,780	486,330	48.00	57.20	223,558	234,484	18,835	253,319

[1] Adjustments made for changes in inventory and for inshipments.
[2] Excludes custom slaughter for use on farms where produced and interfarm sales within the state.
[3] Receipts from marketings and sale of farm slaughter.

Cattle on Feed for Slaughter

YEAR	January 1
	1,000 Head
1987	**200**
1986	175
1985	165
1984	175
1983	150

Hogs

The hog and pig inventory on Michigan farms as of December 1, 1986 totaled 1,250,000 head, up 5 percent from the previous year. Michigan retained 12th place nationally in hog numbers. The December 1 breeding hog inventory of 175,000 head was up 30,000 from a year earlier. Many producers expanded their breeding herds in response to the favorable market hog prices that prevailed during the latter part of 1986. The December market hog population was up 3 percent. June-November farrowings rose 5 percent but the average litter size of 7.9 pigs was down slightly from the record litter size set in 1985. Annual hog marketings, nearly 1.8 million head, were up fractionally from 1985. Market hog prices increased 10 percent, reaching their highest level since 1982. Cash receipts, at $195 million, were up 10 percent. Commercial hog slaughter in Michigan fell to 4.6 million head during 1986, the lowest annual total since 1978. Michigan slipped to fifth place nationally in hog slaughter.

Number on Farms by Class and Number of Operations, December 1

CLASS	**1986**	1985	1984	1983	1982
			1,000 Head		
Breeding Hogs	**175**	145	155	170	150
Market Hogs	**1,075**	1,045	1,155	1,080	750
All Hogs	**1,250**	1,190	1,310	1,250	900
Number of Hog Operations[1]	**7,500**	8,000	8,500	9,000	8,500

[1] Any place having one or more head on hand at any time during the year.

Pig Crop

YEAR	December-May			June-November		
	Sows Farrowed	Pigs per Litter	Pig Crop	Sows Farrowed	Pigs per Litter	Pig Crop
	1,000 Head	*Head*	*1,000 Head*		*Head*	*1,000 Head*
1986	**105**	**8.1**	**851**	**130**	**7.9**	**1,027**
1985	90	7.8	702	124	8.0	992
1984	110	7.5	825	150	7.7	1,155
1983	100	7.5	750	148	7.6	1,125
1982	85	7.5	638	100	7.4	740

Balance Sheet

YEAR	Beginning Inventory	Pig Crop		Inshipments	Marketings[1]	Farm Slaughter[2]	Deaths	Number on Hand December 1
		Dec.-May	June-Nov.					
	1,000 Head							
1986	**1,190**	**851**	**1,027**	**32**	**1,755**	**10**	**85**	**1,250**
1985	1,310	702	992	46	1,745	10	105	1,190
1984	1,250	825	1,155	85	1,860	10	135	1,310
1983	900	750	1,125	75	1,490	10	100	1,250
1982	690	638	740	53	1,081	15	125	900

[1] Includes custom slaughter and state outshipments, but excludes interfarm sales within Michigan.
[2] Excludes custom slaughter for farmers at commercial establishments.

Hogs and Pigs Production and Income

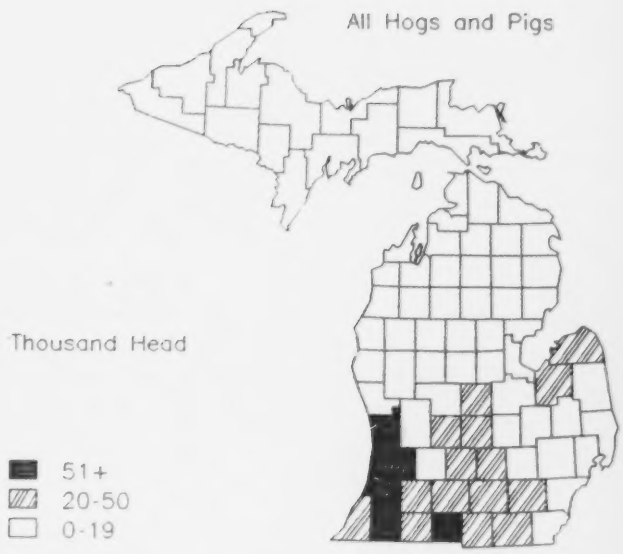
YEAR	Production[1]	Marketings[2]	Average Price per Cwt.	Value of Production	Cash Receipts[3]	Value of Home Consumption	Gross Income
	1,000 Pounds		*Dollars*		*1,000 Dollars*		
1986	**417,195**	**402,115**	**48.30**	**202,132**	**195,293**	**2,318**	**197,611**
1985	386,535	403,985	43.90	169,979	178,243	2,107	180,350
1984	444,608	432,840	46.80	207,746	203,601	2,808	206,409
1983	386,003	345,510	47.00	181,077	163,245	2,820	166,065
1982	287,905	250,757	52.50	150,753	132,554	3,780	136,334

[1] Adjustments made for changes in inventory and for inshipments.
[2] Excludes custom slaughter for use on farms where produced and interfarm sales within the state.
[3] Receipts from marketings and sale of farm slaughter. Includes allowance for higher average price of outshipments of feeder pigs.

Commercial Hog Slaughter

YEAR OR MONTH	Head	Liveweight	
		Per Head	Total
	1,000	*Pounds*	*1,000 Pounds*
1986 January	**461.1**	**237**	**109,202**
February	**395.9**	**236**	**93,613**
March	**446.7**	**236**	**105,486**
April	**462.5**	**239**	**110,489**
May	**379.6**	**238**	**90,402**
June	**324.9**	**237**	**77,145**
July	**344.0**	**236**	**81,350**
August	**341.6**	**236**	**80,599**
September	**358.9**	**236**	**84,738**
October	**395.0**	**237**	**93,794**
November	**338.2**	**238**	**80,595**
December	**376.3**	**235**	**88,566**
1986[1]	**4,625**	**237**	**1,095,979**
1985	5,061	239	1,209,987
1984	5,323	241	1,280,809
1983	5,285	241	1,274,962
1982	5,219	242	1,260,560

[1] Months may not add exactly to annual totals because of rounding.



Sheep and Lambs

Sheep numbers continued to decline in Michigan during 1986. The January 1, 1987 inventory of 106,000 head was down 2,000 from a year earlier and establishes a record low sheep inventory. The record high of 3.1 million head occurred in 1867, the first year estimates were compiled. Stock sheep numbers, 85,000 head, were down 4 percent from a year earlier. Sheep and lambs on feed totaled 21,000 head, up 2,000 from a year earlier.

The 1986 lamb crop of 90,000 head was unchanged from the previous year. Sheep and lamb death losses were up 15 percent from the low 1985 losses as increased disease problems occurred. Cash receipts, nearly $5 million, were up 1 percent due to higher market prices. Lamb prices averaged a record $67.50 per cwt. and prices for mature sheep increased sharply. Wool production set another record low in 1986. Higher wool prices offset the lower production as the value of the 1986 wool crop rose 3 percent. Commercial sheep and lamb slaughter totaled 207,000 head, the lowest annual total in recent history.

Number on Farms by Class and Number of Operations, January 1

CLASS	**1987**	1986	1985	1984	1983
STOCK SHEEP:			*1,000 Head*		
Ewe Lambs	**10**	11	12	13	13
Ram and Wether Lambs	**4**	4	3	4	3
Ewes, 1 year plus	**68**	71	73	72	76
Rams and Wethers, 1 year plus	**3**	3	4	3	3
Sheep and Lambs on Feed	**21**	19	18	18	15
All Sheep and Lambs	**106**	108	110	110	110
Number of Sheep Operations[1]	**2,500**	2,700	2,900	2,900	2,800

[1] Any place having one or more head on hand at any time during the year.

Balance Sheet

YEAR	On Hand January 1, All Sheep and Lambs	Lamb Crop	Inship-ments	Marketings[1]		Farm Slaughter[2]	Deaths		On Hand Following January 1, All Sheep and Lambs
				Sheep	Lambs		Sheep	Lambs	
	1,000 Head								
1986	**108**	**90**	**1**	**14**	**63**	**1**	**4**	**11**	**106**
1985	110	90	1	14	65	1	4	9	108
1984	110	100	0	10	71	2	5	12	110
1983	110	90	0	15	59	1	5	10	110
1982	125	90	2	16	70	2	6	13	110

[1] Includes custom slaughter and state outshipments, but excludes interfarm sales within Michigan.
[2] Excludes custom slaughter for farmers at commercial establishments.

Sheep and Lambs Production and Income

YEAR	Pro-duction[1]	Market-ings[2]	Average Price Per Cwt.		Value of Pro-duction	Cash Receipts[3]	Value of Home Con-sumption	Gross Income
			Sheep	Lambs				
	1,000 Pounds		*Dollars*			*1,000 Dollars*		
1986	**8,690**	**8,680**	**21.50**	**67.50**	**5,157**	**4,957**	**297**	**5,254**
1985	8,674	8,799	16.50	67.00	5,068	4,920	221	5,141
1984	9,369	8,812	14.00	59.00	4,772	4,587	255	4,842
1983	8,045	7,830	14.00	53.00	3,722	3,389	223	3,612
1982	7,580	8,686	18.50	54.50	3,516	4,017	269	4,286

[1] Adjustments made for changes in inventory and for inshipments.
[2] Excludes custom slaughter for use on farms where produced and interfarm sales within the state.
[3] Receipts from marketings and sale of farm slaughter.

Wool Production and Value

YEAR	Number Sheep Shorn	Weight per Fleece	Production	Price per Pound	Value of Production
	1,000 Head	*Pounds*	*1,000 Pounds*	*Cents*	*1,000 Dollars*
1986	**100**	**7.6**	**764**	**46**	**351**
1985	104	7.5	775	44	341
1984	106	7.8	823	54	444
1983	117	7.7	902	40	361
1982	111	7.8	865	44	381

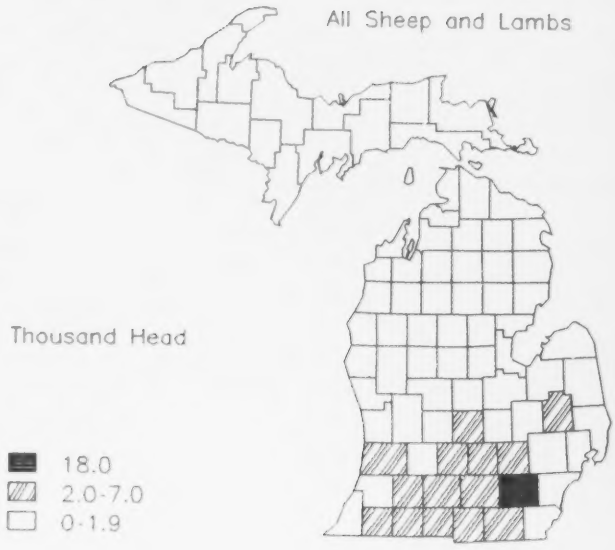
Lamb Crop

YEAR	Breeding Ewes 1 Yr. + January 1	Lamb Crop per 100 Ewes 1 Year +	Lamb Crop
	1,000 Head	*Number*	*1,000 Head*
1986	**71**	**127**	**90**
1985	73	123	90
1984	72	139	100
1983	76	118	90
1982	78	115	90

Commercial Sheep and Lamb Slaughter

YEAR OR MONTH	Head	Liveweight	
		Per Head	Total
	1,000	*Pounds*	*1,000 Pounds*
1986 January	**21.6**	**115**	**2,487**
February	**13.4**	**117**	**1,567**
March	**14.2**	**117**	**1,656**
April	**13.8**	**120**	**1,652**
May	**16.3**	**111**	**1,812**
June	**15.0**	**113**	**1,692**
July	**18.4**	**113**	**2,088**
August	**18.6**	**113**	**2,108**
September	**19.0**	**115**	**2,195**
October	**19.6**	**114**	**2,235**
November	**17.6**	**114**	**2,009**
December	**19.9**	**117**	**2,336**
1986[1]	**207**	**115**	**23,838**
1985	296	114	33,709
1984	342	112	38,347
1983	333	112	37,180
1982	315	109	34,395

[1] Months may not add exactly to annual totals because of rounding.



Poultry

Egg production in Michigan during 1986 exceeded 1.6 billion, down 3 percent from the previous year. Egg production is Michigan's leading poultry enterprise as the State placed 12th nationally during 1986. Value of production was $64.1 million, up 8 percent from a year earlier. Higher egg prices offset the lower production. Prices averaged nearly 47 cents per dozen, up 5 cents from the previous year. The December 1, 1986 inventory of hens and pullets of laying age was 6.7 million birds, down 6 percent from a year earlier. The total chicken inventory, excluding broilers, was down 12 percent. The inventory of pullets not of laying age declined by nearly 700,000 birds.

Turkey production again reached record levels in 1986. Growers raised 2.7 million birds, up 17 percent from a year earlier. Market prices averaged 51 cents per pound, down slightly from 1985. Prices remained well above the levels of the early 1980's. Total value of production was up 15 percent from 1985. Broiler production dropped sharply during 1986, offsetting an increase in market prices. Value of broilers, only $882,000, was down 48 percent. Michigan broiler production consists largely of small farm flocks.

Number on Farms by Class, December 1

CLASS	1986	1985	1984	1983	1982
			1,000 Birds		
CHICKENS:					
Pullets of laying age	**4,150**	4,200	4,050	3,670	3,730
Hens	**2,550**	2,900	2,650	2,530	2,570
Pullets, 3 months plus	**620**	1,200	1,300	725	850
Pullets, less than 3 months	**750**	860	950	775	900
Other Chickens	**30**	40	50	50	50
All Chickens (excluding broilers)	**8,100**	9,200	9,000	7,750	8,100
TURKEYS:			***1,000 Birds***		
Breeder Hens	[1]	[1]	38	38	45

[1] Estimates discontinued.

Chickens: Average Number of Layers

MONTH	1986	1985	1984
		1,000 Birds	
December	**7,050**	6,800	6,100
January	**6,800**	7,000	6,200
February	**6,500**	7,000	6,200
March	**6,400**	6,800	6,150
April	**6,475**	6,600	6,050
May	**6,425**	6,600	6,000
June	**6,325**	6,700	6,050
July	**6,425**	6,700	6,000
August	**6,400**	6,700	6,000
September	**6,350**	6,800	6,200
October	**6,425**	6,950	6,400
November	**6,575**	7,050	6,600
Annual Average[1]	**6,513**	6,807	6,162

[1] December 1 previous year to November 30.

Egg Production

MONTH	1986	1985	1984
		Million	
December	**153**	141	129
January	**143**	145	132
February	**123**	137	123
March	**138**	151	131
April	**136**	139	122
May	**140**	139	123
June	**133**	136	122
July	**137**	139	126
August	**135**	141	125
September	**131**	138	122
October	**137**	142	131
November	**138**	145	133
Total[1]	**1,644**	1,693	1,519

[1] December 1 previous year to November 30.

Chicken and Broiler Production and Income

YEAR	Chickens (excluding broilers)				Broilers			
	Number Raised	Pounds Produced	Price per Pound	Gross Income[1]	Number Produced	Pounds Produced	Price per Pound	Value of Production[2]
	1,000 Birds	*1,000 Pounds*	*Cents*	*1,000 Dollars*	*1,000 Birds*	*1,000 Pounds*	*Cents*	*1,000 Dollars*
1986	**5,300[3]**	**23,850[4]**	**12.0**	**2,862[5]**	**500**	**2,520**	**35.0**	**882**
1985	5,500[3]	24,750[4]	15.0	3,713[5]	1,300	5,460	31.0	1,693
1984	5,500	21,202	11.5	1,850	1,130	4,746	33.0	1,566
1983	5,100	20,147	10.5	2,297	1,130	4,633	30.0	1,390
1982	5,100	20,526	8.5	1,739	1,180	4,720	27.0	1,274

[1] Value of home consumption included for years 1982-1984.
[2] Gross income including home consumption.
[3] Number sold.
[4] Pounds sold.
[5] Value of sales.

Turkey Production and Income

YEAR	Breeder Hens			Market Turkeys			
	Number On Farms December 1	Farm Value		Number Raised[1]	Pounds Produced[2]	Price per Pound[3]	Gross Income
		Per Bird	Total				
	1,000 Birds	*Dollars*	*1,000 Dollars*	*1,000 Birds*	*1,000 Pounds*	*Cents*	*1,000 Dollars*
1986	[4]	[4]	[4]	**2,700**	**70,200**	**51.0**	**35,802**
1985	[4]	[4]	[4]	2,300	59,800	52.0	31,096
1984	38	17.00	646	2,100	52,500	53.0	27,825
1983	38	15.00	570	1,900	47,500	42.0	19,950
1982	45	14.00	630	1,800	46,800	41.0	19,188

[1] Based on turkeys placed September previous year through August, including inshipments. Excludes death loss.
[2] Includes home consumption.
[3] Liveweight equivalent price.
[4] Estimates discontinued, effective December 31, 1984.

Honey

Honey production in Michigan during 1986 totaled 4.5 million pounds. This estimate covers honey taken by producers with 5 or more hives in production. Michigan has a large number of producers who keep only a few bee colonies, but most of the honey taken from these hives is kept for home use and is not part of commercial sales. Bee and honey statistics were not compiled for the years 1982-1985. A provision of the 1985 Food Security Act provided funding to restore annual honey production and price statistics.

Producers with 5 or more hives had a total of 80,000 colonies in production during 1986. Yield per colony averaged 56 pounds. Cloudy, rainy summer and fall weather reduced bee activity and caused lower than normal yields in many areas. Excellent honey yields were reported in the northern Lower Peninsula, the Upper Peninsula, and some areas of western Michigan. Honey prices averaged 49 cents per pound for the 1986 crop. This excludes all government support price payments and loans. A large part of the crop was placed under government loan and was not available for sale. Value of honey production totaled $2.2 million. Honey stocks on hand for sale as of December 15 were 19 percent of production. Leading honey production areas include the Grand Traverse Bay area, the "Thumb," the western Michigan fruit growing region, and several counties in southeastern Michigan. Nationally, Michigan placed 11th in honey production.

Honey Production and Value

YEAR	Colonies of Bees	Honey				
		Yield per Colony	Production	Average Price	Total Value	Stocks Dec. 15
	1,000	*Pounds*	*1,000 Pounds*	*Cents*	*1,000 Dollars*	*1,000 Pounds*
1986	**80**	**56**	**4,480**	**49**	**2,195**	**851**
1981[1]	98	50	4,900	63	3,072	1,911

[1] Honey statistics for 1981 and earlier years includes production by beekeepers with one or more colonies. Statistics for 1986 cover production by operations with five or more colonies.

Mink

Mink pelt production in Michigan decreased 12,000 in 1986 to 154,500 pelts. Even with this decrease Michigan ranked 8th nationally in mink. The State produces about 4 percent of the Nation's mink pelts. Over half of the State's mink are raised in the Upper Peninsula. The area's cooler temperatures are ideal for mink production. Several color classes are produced in the State with Standard the most predominant. Demi-Buff, Pastel, Violet, Ranch Wild and Mahogany are also popular. These 6 color classes account for 89 percent of the State's pelt production. Michigan's pelt production should increase in 1987, as about 3,100 more females are bred to produce kits in 1987.

Pelt Production and Farms

ITEM	1986	1985	1984	1983	1982
Pelt Production by Color Class:			*1,000 Pelts*		
Standards	**57.5**	55.0	56.8	48.4	52.3
Ranch Wild	**19.2**	18.6	31.9	25.9	19.3
Demi-Buff	**19.3**	20.2	10.1	12.2	17.8
Pastel	**11.0**	19.5	14.4	16.5	22.8
Violet	**13.2**	20.0	23.5	16.5	9.5
Pearl	**8.7**	13.0	16.6	13.2	11.5
White	**7.3**	7.3	10.8	9.4	9.1
Mahogany	**16.6**	11.0	—	—	—
Other	**1.7**	1.3	3.4	2.4	1.7
Total	**154.5**	166.5	167.5	144.5	144.0
			1,000 Females		
Females Bred to Produce Kits in Next Year	**43.5**	40.4	42.4	42.7	40.7
Mink Farms Producing Pelts	**51**	53	56	54	50

DAIRY

General Information

The Dairy Termination Program (DTP) and its impact on Michigan milk production dominated the dairy situation during 1986. Dairy provisions of the 1985 Food Security Act (Farm Bill) were designed to reduce the U.S. milk surplus by 12 billion pounds by October 1, 1987. Over 14,000 U.S. dairy herds will have been sold for slaughter or export due to the DTP by September 30, 1987. Michigan will lose about 13 percent of its herds. Michigan had approximately 6,500 commercial dairy herds before the DTP started on April 1, 1986. Dairymen representing about 30 percent of the state's herds (1,945) submitted herd buyout bids and a total of 846 bids were accepted. Nearly 44 percent of the bids in Michigan were accepted while the U.S. average was only 35 percent. Producers' bids were accepted for one of three disposal periods: April 1-August 31, 1986; September 1, 1986-February 28, 1987; and March 1-August 31, 1987. Of the 846 herds accepted in Michigan, 545 of them were originally slated to go out of production in the first period. A total of 111 herds were selected for period two and 190 herds for the final period. Adjustments were made in the program to reduce the impact of cow slaughter during disposal period one on the cattle markets. Some producers were allowed to shift their bids from period one to a later period.

A total of 46,000 cows were to be slaughtered or exported under the DTP in Michigan. This was nearly 12 percent of the total producing herd. A total of 83,000 dairy animals (cows, heifers, calves) were scheduled for disposal. Total milk marketings were expected to be reduced by over 638 million pounds, nearly 12 percent of the 1985 marketings. Michigan's reduction in milk marketings was the highest among traditional northern dairy states. Wisconsin marketings were slated to drop 3 percent; Minnesota, 9 percent; Pennsylvania, 3 percent; and New York, 4 percent. Some expansion in cow numbers by producers not in the DTP and higher milk output per cow offset part of the drop in milk production. Average dairy feed costs declined during the past year, contributing to increased grain and concentrate feeding rates. Milk per cow was reduced during the last few months of 1986 in Michigan counties affected by the heavy fall rains and flooding.

Michigan milk production in 1986 was down 3 percent from 1985. Annual average milk prices declined again, falling to their lowest level since 1979. The prices reported in this bulletin reflect the total value of milk delivered to the dairy plant or receiving station before deductions are made for hauling costs, promotion funds, and special assessments. These deductions are counted as part of dairy farm production costs. Tighter supply-demand conditions kept milk prices from falling more sharply in 1986. Commercial utilization was boosted by declining real dairy prices, the strong economy, and expanded promotion. The support price for milk (3.67 percent milkfat) was reduced from $11.60 to $11.35 per hundredweight (cwt.) on January 1, 1987. This level will remain in effect until September 30 when the support price is scheduled to be reduced to $11.10 per cwt. The DTP impacted all segments of the Michigan dairy industry, including milk haulers, dairy equipment supply and service firms, and dairy manufacturing plants. Reduced production of many dairy products, such as butter, was due largely to the impact of the DTP.

Cows and Milk Production

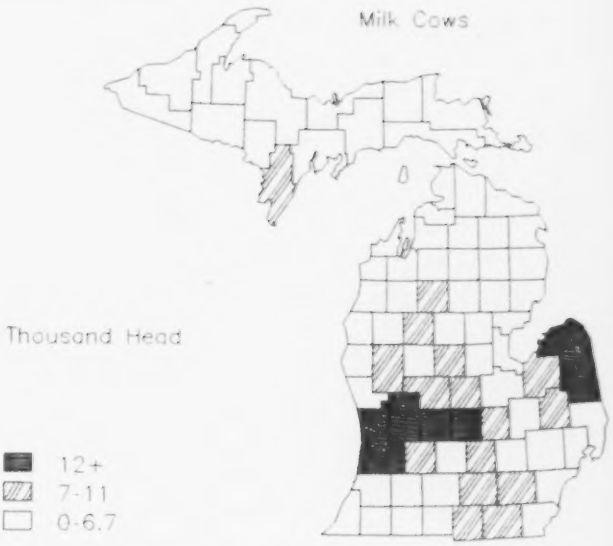
Dairy herds in Michigan produced 5.4 billion pounds of milk during 1986, down 3 percent from the previous year. The reduced production was due to the Dairy Termination Program (DTP) which took effect on April 1. Cow numbers and milk production were averaging well above previous year levels during early 1986. When the DTP started, cow numbers declined sharply and continued to decline for the rest of 1986. By the end of the year, cow numbers were down nearly 30,000 head from December, 1985. Average cow numbers, at 379,000 head, were down 4 percent from a year earlier. This was the lowest annual average milk cow inventory since 1880. Increased milk per cow offset part of the drop in cow numbers. Milk per cow averaged a record 14,259 pounds, up 1 percent from 1985.

Dairy producers sold 5.3 billion pounds of milk to dairy plants and dealers in 1986, down 3 percent from the previous year. Of the total milk sold, 97 percent was classified as milk eligible for fluid-grade use (grade A milk). Dairy cash receipts exceeded $672 million, down 4 percent, the lowest level since 1980. Milk receipts still accounted for over 25 percent of Michigan's total farm cash receipts in 1986. The value of milk sold averaged $12.60 per hundredweight, the lowest value since 1979. Cash receipts from milk sold directly to consumers at the farm totaled $3.3 million. Milk used on the farm as livestock feed or for household use totaled 80 million pounds, down 11 percent from 1985.

Milk Cows on Farms

MONTH	1986	1985	1984	1983	1982[1]
	1,000 Head				
January	**396**	389	400	400	395
February	**394**	388	400	401	393
March	**392**	388	397	403	392
April	**386**	390	397	402	
May	**381**	392	394	404	393
June	**376**	394	392	404	
July	**372**	395	392	406	
August	**372**	396	392	405	397
September	**372**	398	392	408	
October	**368**	398	392	408	
November	**369**	398	391	407	397
December	**368**	397	390	404	
Average	**379**	394	394	404	395

[1] Quarterly estimates April-December 1982.



Total Milk Production

MONTH	1986	1985	1984	1983	1982[1]
	Million Pounds				
January	**465**	445	454	450	433
February	**426**	407	434	413	393
March	**474**	456	464	463	439
April	**465**	449	453	454	
May	**490**	486	463	477	1,324
June	**472**	481	449	471	
July	**461**	494	459	481	
August	**458**	491	451	476	1,350
September	**435**	470	435	465	
October	**431**	476	437	469	
November	**406**	450	416	448	1,314
December	**421**	463	435	461	
Annual	**5,404**	5,568	5,350	5,528	5,253

[1] Quarterly estimates April-December 1982.

Milk Production per Cow

MONTH	1986	1985	1984	1983	1982[1]
	Pounds				
January	**1,175**	1,145	1,135	1,125	1,095
February	**1,080**	1,050	1,085	1,030	1,000
March	**1,210**	1,175	1,170	1,150	1,120
April	**1,205**	1,150	1,140	1,130	
May	**1,285**	1,240	1,175	1,180	3,370
June	**1,255**	1,220	1,145	1,165	
July	**1,240**	1,250	1,170	1,185	
August	**1,230**	1,240	1,150	1,175	3,400
September	**1,170**	1,180	1,110	1,140	
October	**1,170**	1,195	1,115	1,150	
November	**1,110**	1,130	1,065	1,100	3,310
December	**1,145**	1,165	1,115	1,140	
Annual	**14,259**	14,132	13,579	13,683	13,299

[1] Quarterly estimates April-December 1982.

Farms, Milk Production, Utilization, Marketing and Value

PRODUCTION AND USE	Unit	1986	1985	1984	1983	1982
FARMS						
Number of operations with milk cows[1]	Number	**8,000**	8,500	9,000	9,000	9,000
Number of Grade A herds	Number	**6,400**	6,800	6,500	6,600	6,600
PRODUCTION AND UTILIZATION						
Production of Milk						
Total milk produced on farms	Mil. Lbs.	**5,404**	5,568	5,350	5,528	5,253
Milkfat produced	Mil. Lbs.	**199**	204	197	202	191
Percentage of milkfat	Percent	**3.68**	3.66	3.68	3.66	3.64
Utilization						
Milk Marketed by Producers						
Sold to plants and dealers as whole milk[2]	Mil. Lbs.	**5,310**	5,465	5,230	5,410	5,145
Sold directly to consumers	Mil. Lbs.	**14**	13	15	18	18
Milk used where produced						
Fed to calves	Mil. Lbs.	**65**	70	85	75	65
Used by farm household	Mil. Lbs.	**15**	20	20	25	25
MARKETINGS						
Milk Marketed by Producers						
Sold to plants and dealers						
Quantity[2]	Mil. Lbs.	**5,310**	5,465	5,230	5,410	5,145
Percent fluid grade	Percent	**97**	97	97	97	97
Price per 100 pounds	Dollars	**12.60**	12.70	13.50	13.60	13.60
Cash receipts	1,000 Dol.	**669,060**	694,055	706,050	735,760	699,720
Sold Directly to Consumers						
Quantity	1,000 Qts.	**6,512**	6,047	6,977	8,372	8,372
Price per quart	Dollars	**.50**	.50	.50	.50	.50
Cash receipts	1,000 Dol.	**3,256**	3,023	3,488	4,186	4,186
Total Marketings						
Milk utilized	Mil. Lbs.	**5,324**	5,478	5,245	5,428	5,163
Price per 100 pounds of milk	Dollars	**12.63**	12.73	13.53	13.63	13.63
Price per pound milkfat	Dollars	**3.43**	3.48	3.68	3.72	3.75
Total cash receipts	1,000 Dol.	**672,316**	697,078	709,538	739,946	703,906
VALUE						
Value of milk used where produced[3]	1,000 Dol.	**10,102**	11,453	14,205	13,632	12,270
TOTAL VALUE OF MILK PRODUCED	1,000 Dol.	**682,418**	708,531	723,743	753,578	716,176

[1] Any place having one or more milk cows on hand at any time during the year.
[2] Includes the equivalent amounts of milk for cream sold to plants and dealers.
[3] Includes value of milk fed to calves and milk used by farm household.

Dairy Products

Production of several manufactured dairy products decreased during 1986 due largely to the impact of the Dairy Termination Program (DTP). Milk production in Michigan was down and regional shifts in milk supply and demand due to the DTP resulted in reduced quantities of milk available for manufacturing. During 1986, Michigan placed in the top ten nationally in the production of butter, cottage cheese, condensed skim milk, nonfat dry milk, ice cream, ice milk, and milk sherbet. A total of 55 plants produced one or more dairy products for which statistics are compiled. Only 7 states topped Michigan in the number of dairy manufacturing plants.

Butter production, 37.7 million pounds, was down 17 percent from 1985 and production of nonfat dry milk was down 11 percent. Unsweetened condensed skim milk was up 1 percent. Michigan placed fifth nationally in nonfat dry milk production and fourth in unsweetened condensed skim milk. Creamed cottage cheese output dropped 7 percent, but lowfat cottage cheese increased 12 percent.

Hard cheese output, 53.6 million pounds, was up 4 percent from 1985. American cheese exceeded 22 million pounds, up 7 percent from a year earlier. Italian cheese (primarily mozzarella) declined 2 percent but production of various specialty cheeses (largely Havarti and Farmers Cheese) soared 95 percent. A total of 14 hard cheese plants and 33 ice cream plants operated in Michigan last year. Ice cream production, 33.5 million gallons, was down 5 percent from 1985. Ice milk production was up slightly and milk sherbet output increased 19 percent.

Butter Production

MONTH	1986	1985	1984
	1,000 Pounds		
January	**4,510**	3,523	5,596
February	**4,236**	3,456	5,215
March	**4,174**	3,757	5,163
April	**5,146**	3,763	4,917
May	**4,112**	4,429	4,348
June	**3,069**	3,546	2,847
July	**1,955**	3,546	2,069
August	**1,866**	3,930	2,057
September	**2,182**	3,600	2,319
October	**2,117**	4,078	3,657
November	**1,846**	3,521	2,447
December	**2,464**	4,459	2,933
Annual	**37,677**	45,608	43,568

Creamed Cottage Cheese Production

MONTH	1986	1985	1984
	1,000 Pounds		
January	**2,892**	3,064	2,883
February	**2,493**	2,936	2,843
March	**2,820**	3,154	2,209
April	**2,876**	3,292	1,907
May	**3,106**	3,519	2,146
June	**2,726**	2,850	2,371
July	**2,998**	3,238	2,263
August	**2,870**	3,113	3,103
September	**2,737**	2,912	2,596
October	**3,012**	2,897	2,902
November	**2,536**	2,675	2,923
December	**2,638**	2,421	2,790
Annual	**33,705**	36,071	30,936

Nonfat Dry Milk Production[1]

MONTH	1986	1985	1984
	1,000 Pounds		
January	**8,952**	6,807	8,868
February	**8,795**	6,204	8,218
March	**9,647**	7,473	8,818
April	**10,357**	7,815	8,701
May	**10,785**	9,927	9,150
June	**10,242**	10,767	9,112
July	**8,988**	10,968	10,018
August	**7,340**	10,898	8,481
September	**5,591**	8,263	8,392
October	**3,900**	9,468	8,017
November	**4,214**	7,891	7,183
December	**5,748**	9,457	7,851
Annual	**94,559**	105,938	102,809

[1]Used for human food.

Ice Cream Production

MONTH	1986	1985	1984
	1,000 Gallons		
January	**2,349**	2,408	2,039
February	**2,205**	2,419	2,070
March	**2,767**	2,734	2,308
April	**2,720**	3,116	2,416
May	**3,262**	3,477	2,715
June	**3,436**	3,509	3,341
July	**3,704**	4,144	3,563
August	**3,504**	3,510	3,446
September	**2,801**	2,870	2,738
October	**2,554**	2,687	2,522
November	**1,978**	2,205	2,172
December	**2,240**	2,255	2,068
Annual	**33,520**	35,334	31,398

Total Cheese Production[1]

MONTH	1986	1985	1984
	1,000 Pounds		
January	**3,970**	4,376	2,956
February	**3,462**	4,190	2,794
March	**3,721**	3,967	3,041
April	**4,072**	5,223	3,129
May	**4,582**	5,491	3,555
June	**5,136**	4,696	3,663
July	**4,522**	3,896	3,380
August	**4,349**	3,985	3,394
September	**4,587**	3,852	3,321
October	**4,989**	4,082	3,686
November	**4,927**	3,784	3,605
December	**5,249**	3,845	4,007
Annual	**53,566**	51,387	40,531

[1] Includes American Cheeses, Mozzarella and other Italian Cheeses, Cream Cheese, Feta, Havarti, and Farmers Cheese. Excludes Cottage Cheeses.

Ice Milk Production

MONTH	1986	1985	1984
	1,000 Gallons		
January	**505**	609	535
February	**613**	617	559
March	**742**	940	688
April	**1,114**	1,111	798
May	**1,424**	1,346	1,108
June	**1,521**	1,272	1,328
July	**1,588**	1,545	1,328
August	**1,218**	1,381	1,315
September	**923**	931	739
October	**844**	745	623
November	**596**	583	544
December	**715**	529	441
Annual	**11,803**	11,609	10,006

Milk Sherbet Production

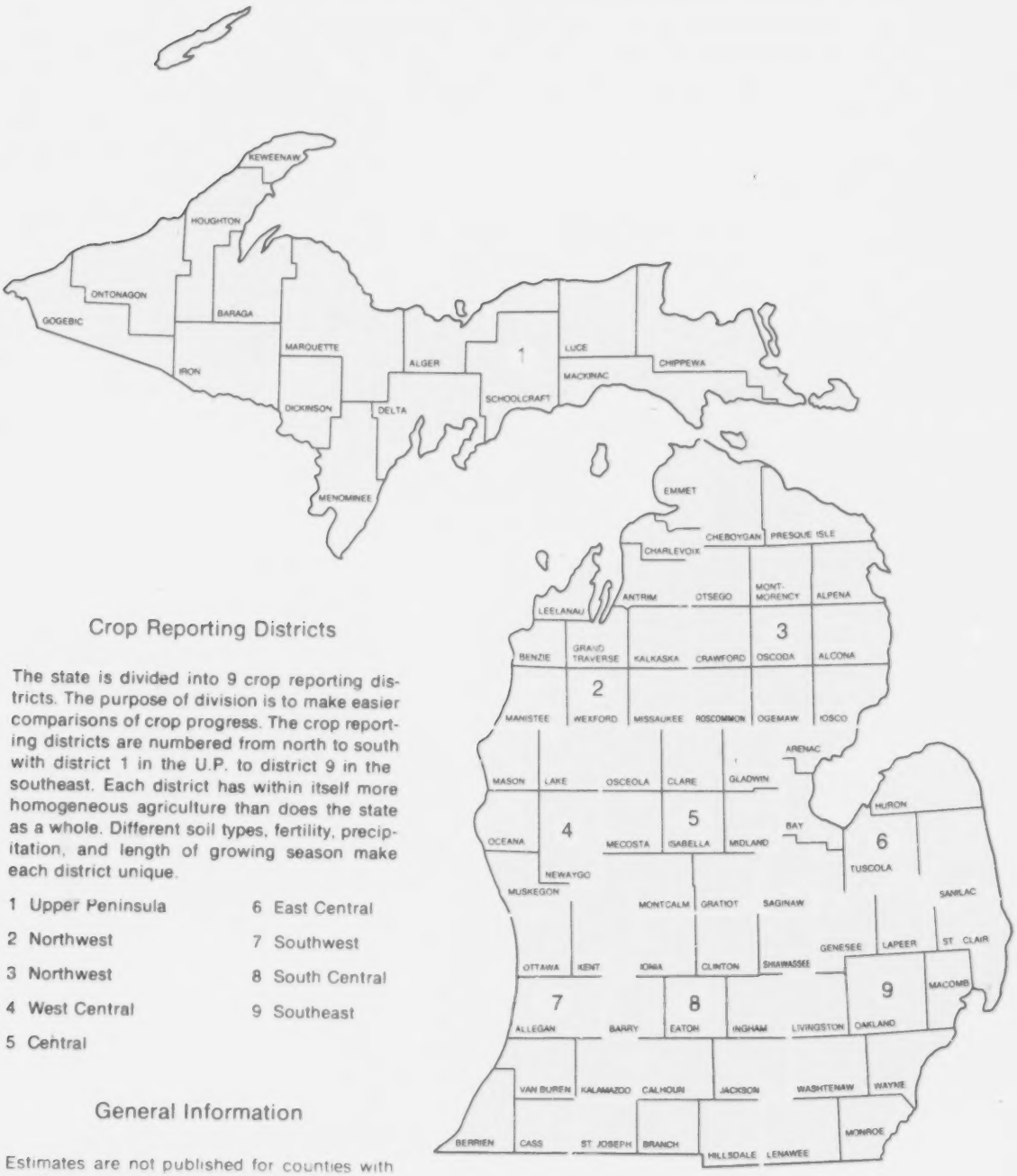
MONTH	1986	1985	1984
	1,000 Gallons		
January	**115**	105	78
February	**90**	75	87
March	**125**	122	100
April	**151**	119	120
May	**183**	185	140
June	**176**	147	175
July	**293**	157	142
August	**186**	160	167
September	**142**	108	121
October	**96**	118	109
November	**123**	102	83
December	**128**	126	103
Annual	**1,808**	1,524	1,425

American Cheese Production[1]

MONTH	1986	1985	1984
	1,000 Pounds		
January	**1,407**	1,966	1,353
February	**1,253**	2,287	1,095
March	**1,292**	1,387	1,078
April	**1,397**	2,491	1,221
May	**1,901**	2,620	1,272
June	**2,449**	1,862	1,313
July	**1,778**	1,353	1,495
August	**1,723**	1,722	1,212
September	**1,738**	1,196	1,172
October	**2,290**	1,214	1,228
November	**2,333**	1,302	1,464
December	**2,549**	1,176	1,829
Annual	**22,110**	20,576	15,732

[1] Includes Cheddar, Colby, Washed or Stirred Curd, Monterey and Jack.

County Estimates



Crop Reporting Districts

The state is divided into 9 crop reporting districts. The purpose of division is to make easier comparisons of crop progress. The crop reporting districts are numbered from north to south with district 1 in the U.P. to district 9 in the southeast. Each district has within itself more homogeneous agriculture than does the state as a whole. Different soil types, fertility, precipitation, and length of growing season make each district unique.

1 Upper Peninsula
2 Northwest
3 Northwest
4 West Central
5 Central
6 East Central
7 Southwest
8 South Central
9 Southeast

General Information

Estimates are not published for counties with small acreages, inventories or production. Livestock rankings based on number of head. Crop rankings based on production. Corn ranking based on grain production. Dry bean yields are rounded to the nearest 10 pounds. Potato yields are rounded to the nearest 5 hundred-weight.

Rank of Michigan's Counties[1]

COUNTY	Farms	Corn	Soy-beans	Wheat	Dry Beans	Oats	Pota-toes	Barley	All Cattle	Milk Cows	All Hogs	HP LA[2]	Sheep
Alger	77	74	61•	75	—	77	58	27•	72	67	71•	78•	37•
Baraga	78	78•	—	—	—	71	—	56•	78	72	—	78•	—
Chippewa	49	70	—	61	—	37•	71•	16	47	43•	60•	13•	19•
Delta	54	69	44	63	22•	41	11	3	44	39•	49•	57•	67•
Dickinson	69•	67	—	—	—	70	9	32•	64	62•	74•	70•	—
Gogebic	76	78•	—	—	—	78	68•	76•	80	76•	74•	78•	69•
Houghton	64	71	—	—	—	54•	35	47	68	62•	71•	34•	60•
Iron	72	76•	—	69	—	66	22	73	69•	73•	74•	72•	54•
Keweenaw	83	—	—	—	—	—	—	—	—	—	—	81•	—
Luce	81	76•	—	65•	57•	74	17	44	75•	—	71•	76•	76•
Mackinaw	73	72	61•	65•	—	63	68•	36•	62	58•	—	64•	76•
Marquette	68	75	—	—	—	72	23	39•	74	71	65•	70•	60•
Menominee	44	50	58•	—	57•	36	61•	4	26•	22	58•	29	67•
Ontonagon	66	78•	61•	73	—	61•	68•	67	61	62•	74•	75	54•
Schoolcraft	79	73	58•	71	34•	68	28	23•	73	76•	69	81•	—
Antrim	58	52	60	50	31•	48	4	62	51	48•	52•	24•	53
Benzie	65	65	—	67•	—	82	—	—	75•	76•	47•	57•	57•
Charlevoix	59	56	61•	67•	34•	67	59	25	53	51	49•	23	49•
Emmet	60	61	61•	72	31•	53	16	49	54•	58•	65•	57•	57•
Grand Traverse	43	45	54	47	41•	59	67	70	56	58•	42	52•	45•
Kalkaska	74	58	51•	57	40	75	10	74	79	75	60•	76•	75•
Leelanau	48	53	61•	62	52•	65	38	76•	57	62•	54•	31	69•
Manistee	56	57	42	60	22•	73	13	63	67	73•	58•	57•	60•
Missaukee	51	47	—	59	31•	28	29	69	71	11	41	57•	45•
Wexford	62	54	61•	52•	52•	60	66	76•	60	53•	54•	66•	60•
Alcona	57	62•	55•	52•	47•	56	71•	23•	48	58•	54•	27•	37•
Alpena	45	55	47•	39	20	19	21	31	38	36•	57	38•	37•
Cheboygan	63	66	55•	55•	41•	64	71•	27•	54•	48•	52•	57•	49•
Crawford	82	—	—	—	—	80	55	—	82	—	—	81•	—
Iosco	61	46	46	40	29•	50	50	29•	40•	52	47•	72•	45•
Montmorency	71	59	47•	58	27	57	53	34	65•	56•	70	64•	57•
Ogemaw	55	49	47•	49	29•	33•	51	19	33•	32	60•	57•	43•
Oscoda	75	68	—	74	—	79	—	68	65•	62•	78•	66•	49•
Otsego	67	64	—	55•	47•	54•	18	51	63	67•	65•	66•	69•
Presque Isle	52	60	55•	45	12	22	3	21	42•	45	65•	21	60•
Roscommon	80	76•	—	70	—	81	—	72	81	—	78•	72•	75•
Lake	69•	62•	61•	64	62•	69	54	76•	69•	67•	64	54•	54•
Mason	41	42	41	33	45•	35	63•	52•	39	36•	44	42	19•
Muskegon	42	37	38	43	62•	52	63•	50	36•	31	39	54•	60•
Newaygo	35	35	43	46	45•	45	41	56•	22•	18•	32	9	18
Oceana	36	41	51•	48	65•	51	45	64	33•	38	30	17	35•
Clare	53	51	45	54	41•	43	65	32•	33•	39•	36	66•	29
Gladwin	47	43	37	41	17•	29	—	35	42•	48•	46	50•	25•
Gratiot	21	10	7	18	4	20	26	42•	12•	15•	18	10	25•

Rank of Michigan's Counties[1]

COUNTY	Farms	Corn	Soy-beans	Wheat	Dry Beans	Oats	Pota-toes	Barley	All Cattle	Milk Cows	All Hogs	HP LA[2]	Sheep
Isabella	30	28	25	24	8	14	34	7	10*	9	22*	7	23*
Mecosta	38	40	50	37	16	30	5	17	28*	27	40	50*	19*
Midland	40	34	22	42	9	46	47	56*	52	67*	38	56	60*
Montcalm	24	21	31	14	7	9	1	8	18	10	26	43*	30*
Osceola	39	48	53	51	57*	27	36	14	26*	23	43	34*	33*
Arenac	50	38	29	31	10*	39	12	36*	45*	39*	35	48*	69*
Bay	26	25	23	22	5	58	2	41	59	55	45	48*	69*
Huron	5	2	35	1	1	2	20	1	1	2	8*	2	49*
Saginaw	4	14	2	4	3	12	27	29*	32	30	28	34*	16
Sanilac	1	3	10	2	6	1	39	2	2	1	29	38*	40*
Tuscola	10	7	17	5	2	4	14	5	19*	21	17	6	30*
Allegan	2	11	34	25	34*	16	8	39*	3	3	2	4	15
Berrien	3	29	14	29*	34*	61*	49	66	47*	46	15	13*	45*
Cass	29	15	15	21	—	42	46	18	36*	42	1	45*	9*
Kalamazoo	32	19	13	27	51	31	57	60*	29*	34*	13	5	12*
Kent	8	22	36	28	17*	6	19	12	5	5	21	30	35*
Ottawa	7	30	39*	34	34*	23	32	26	4	6	3	1	43*
Van Buren	11	33	27	38	65*	47	56	22	40*	47	4	8	25*
Barry	27	27	26	23	24	25	25	42*	15	13	24	32*	17
Branch	23	4	5	20	60*	26	74*	52*	22*	29	5	38*	7*
Calhoun	19	9	11	12	56	13	37	45	14	24	11*	11	12*
Clinton	9	20	4	8	10*	10	43*	20	6	4	16	32*	7*
Eaton	14	12	16	6	3	32	24	36*	22*	28	19*	19	5
Hillsdale	16	5	8*	15	60*	17	74*	71	12*	13	7	15*	4
Ingham	25	13	21	13	21	24	33	46	16	12	14	18	6
Ionia	22	17	19	9	15	3	52	9	7	7	11*	3	19*
Jackson	20	16	30	17	52*	18	42	55	8	20	6	27*	2
St. Joseph	28	6	8*	29*	52*	44	61*	52*	31	33	10	20	9*
Shiawassee	13	24	6	11	14	8	40	6	19*	18*	25	22	25*
Genesee	31	26	24	26	25	15	30	13	29*	34*	27	38*	23*
Lapeer	15	23	32	16	17*	7	43*	10	9	8	31	34*	9*
Lenawee	6	1	1	3	34*	21	7	48	10*	17	8*	26	3
Livingston	33	32	33	32	41*	33*	76	65	21	25	34	45*	12*
Macomb	34	36	18	35	28	37*	31	60*	49*	43*	33	45*	40*
Monroe	12	8	3	7	47*	40	6	59	45*	53*	22*	15*	30*
Oakland	37	39	39*	36	47*	49	77	75	58	56*	49*	52*	33*
St. Clair	18	31	12	19	26	11	48	15	25	26	37	12	40*
Washtenaw	17	18	20	10	64	5	15	11	17	15*	19*	24*	1
Wayne	46	44	28	44	—	76	60	—	77	76*	60*	43*	69*

[1] Livestock rankings based on number of head. Crop rankings based on production. Corn rankings based on grain production. Number of farms data from 1982 Census of Agriculture. All other rankings from 1986 County Estimates.
[2] HPLA — Hens and Pullets of Laying Age.
* Tied with another county.

Cattle and Sheep: January 1, 1987

DISTRICT AND COUNTY	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	All Sheep and Lambs
			Head		
Alger	2,200	900	700	200	800
Baraga	1,400	700	400	300	--
Chippewa	8,900	4,500	2,500	2,000	1,500
Delta	9,600	4,700	2,700	2,000	150
Dickinson	3,300	1,500	800	700	--
Gogebic	1,000	400	100	300	100
Houghton	2,700	1,200	800	400	200
Iron	2,500	1,600	300	1,300	300
Keweenaw	--	--	--	--	--
Luce	1,600	300	--	300	50
Mackinac	4,000	1,700	1,000	700	50
Marquette	1,800	900	500	400	200
Menominee	20,000	8,900	7,300	1,600	150
Ontonagon	4,100	1,800	800	1,000	300
Schoolcraft	1,900	900	100	800	--
UPPER PENINSULA (1)	65,000	30,000	18,000	12,000	3,800
Antrim	7,600	2,400	1,700	700	350
Benzie	1,600	500	100	400	250
Charlevoix	7,000	3,400	1,600	1,800	400
Emmett	6,500	3,300	1,000	2,300	250
Grand Traverse	6,300	1,900	1,000	900	500
Kalkaska	1,200	400	200	200	50
Leelanau	6,200	1,300	800	500	100
Manistee	3,000	1,300	300	1,000	200
Missaukee	23,000	10,300	9,400	900	500
Wexford	4,600	2,200	1,400	800	200
NORTHWEST (2)	67,000	27,000	17,500	9,500	2,800
Alcona	8,700	3,500	1,000	2,500	800
Alpena	11,500	5,500	3,300	2,200	800
Cheboygan	6,500	3,400	1,700	1,700	400
Crawford	100	--	--	--	--
Iosco	10,500	4,100	1,500	2,600	500
Montmorency	3,200	1,700	1,200	500	250
Ogemaw	14,000	5,800	3,900	1,900	600
Oscoda	3,200	1,400	800	600	400
Otsego	3,800	1,300	700	600	100
Presque Isle	10,000	4,600	2,400	2,200	200
Roscommon	500	200	--	200	50
NORTHEAST (3)	72,000	31,500	16,500	15,000	4,100
Lake	2,500	1,200	700	500	300
Mason	11,000	3,800	3,300	500	1,500
Muskegon	13,000	4,800	4,100	700	200
Newaygo	22,500	9,500	7,800	1,700	1,600
Oceana	14,000	4,700	3,100	1,600	900
WEST CENTRAL (4)	63,000	24,000	19,000	5,000	4,500
Clare	14,000	5,600	2,700	2,900	1,200
Gladwin	10,000	4,300	1,700	2,600	1,300
Gratiot	32,000	10,900	8,100	2,800	1,300

Cattle and Sheep: January 1, 1987

DISTRICT AND COUNTY	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	All Sheep and Lambs
			Head		
Isabella	33,000	13,300	10,300	3,000	1,400
Mecosta	19,500	8,600	5,500	3,100	1,500
Midland	7,500	1,600	700	900	200
Montcalm	25,000	11,000	9,800	1,200	1,100
Osceola	20,000	10,700	7,200	3,500	1,000
CENTRAL (5)	161,000	66,000	46,000	20,000	9,000
Arenac	9,000	3,200	2,700	500	100
Bay	5,000	1,700	1,300	400	100
Huron	81,000	22,100	19,000	3,100	400
Saginaw	15,500	5,800	4,400	1,400	1,900
Sanilac	75,000	31,300	29,000	2,300	700
Tuscola	24,500	10,400	7,600	2,800	1,100
E.CENTRAL (6)	210,000	74,500	64,000	10,500	4,300
Allegan	48,000	18,400	15,000	3,400	2,000
Berrien	8,500	3,700	2,300	1,400	500
Cass	13,000	6,100	2,600	3,500	2,500
Kalamazoo	18,000	5,900	3,500	2,400	2,200
Kent	42,000	16,600	13,300	3,300	900
Ottawa	47,000	17,700	13,200	4,500	600
Van Buren	10,500	4,600	2,100	2,500	1,300
SOUTHWEST (7)	187,000	73,000	52,000	21,000	10,000
Barry	28,000	12,400	8,200	4,200	1,700
Branch	22,500	7,000	4,800	2,200	3,000
Calhoun	31,000	12,000	6,700	5,300	2,200
Clinton	40,000	16,700	14,800	1,900	3,000
Eaton	22,500	9,600	5,200	4,400	3,700
Hillsdale	32,000	12,500	9,000	3,500	3,800
Ingham	27,500	11,800	9,300	2,500	3,300
Ionia	38,000	15,300	12,800	2,500	1,500
Jackson	36,000	13,000	7,700	5,300	7,000
St. Joseph	16,000	5,500	3,700	1,800	2,500
Shiawassee	24,500	10,200	7,800	2,400	1,300
S.CENTRAL (8)	318,000	126,000	90,000	36,000	33,000
Genesee	18,000	5,200	3,500	1,700	1,400
Lapeer	35,000	14,200	10,400	3,800	2,500
Lenawee	33,000	10,300	7,900	2,400	6,800
Livingston	23,000	8,400	6,300	2,100	2,200
Macomb	8,500	3,400	2,500	900	700
Monroe	9,000	2,200	1,400	800	1,100
Oakland	5,500	2,600	1,200	1,400	1,000
St. Clair	21,500	10,800	5,600	5,200	700
Washtenaw	27,000	10,700	8,100	2,600	18,000
Wayne	1,500	200	100	100	100
SOUTHEAST (9)	182,000	68,000	47,000	21,000	34,500
STATE	1,325,000	520,000	370,000	150,000	106,000

Cattle and Sheep: January 1, 1986

DISTRICT AND COUNTY	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	All Sheep and Lambs
			Head		
Alger	2,500	950	800	150	800
Baraga	1,700	750	400	350	--
Chippewa	9,100	4,500	2,500	2,000	2,000
Delta	9,800	4,900	2,800	2,100	150
Dickinson	3,600	1,700	800	900	50
Gogebic	1,200	550	200	350	500
Houghton	3,000	1,250	900	350	200
Iron	2,600	1,700	300	1,400	150
Keweenaw	--	--	--	--	--
Luce	1,300	300	--	300	--
Mackinac	4,100	1,800	1,000	800	50
Marquette	2,100	900	500	400	200
Menominee	22,000	9,500	7,700	1,800	100
Ontonagon	4,100	1,800	800	1,000	400
Schoolcraft	1,900	900	300	600	--
UPPER PENINSULA (1)	69,000	31,500	19,000	12,500	4,600
Antrim	7,900	2,700	1,800	900	250
Benzie	1,800	600	100	500	50
Charlevoix	7,200	3,200	1,700	1,500	200
Emmett	7,000	3,200	1,000	2,200	400
Grand Traverse	7,000	2,300	1,200	1,100	150
Kalkaska	1,300	500	300	200	50
Leelanau	6,000	1,500	800	700	150
Manistee	3,100	1,400	300	1,100	200
Missaukee	25,000	10,800	9,800	1,000	550
Wexford	4,700	2,300	1,500	800	200
NORTHWEST (2)	71,000	28,500	18,500	10,000	2,200
Alcona	9,000	3,700	1,100	2,600	900
Alpena	11,700	5,600	3,400	2,200	900
Cheboygan	7,000	3,500	1,800	1,700	500
Crawford	100	--	--	--	--
Iosco	11,500	4,300	1,500	2,800	600
Montmorency	3,300	1,800	1,300	500	300
Ogemaw	14,700	5,600	3,900	1,700	700
Oscoda	3,500	1,600	900	700	300
Otsego	4,100	1,400	700	700	100
Presque Isle	10,700	4,800	2,400	2,400	250
Roscommon	400	200	--	200	50
NORTHEAST (3)	76,000	32,500	17,000	15,500	4,600
Lake	2,500	1,200	700	500	200
Mason	12,000	4,200	3,600	600	1,400
Muskegon	13,800	5,000	4,300	700	300
Newaygo	23,500	9,900	8,200	1,700	1,500
Oceana	14,200	4,700	3,200	1,500	400
WEST CENTRAL (4)	66,000	25,000	20,000	5,000	3,800
Clare	15,000	5,800	2,900	2,900	1,700
Gladwin	11,000	4,400	1,900	2,500	1,200
Gratiot	31,000	11,200	8,300	2,900	1,100

Cattle and Sheep: January 1, 1986

DISTRICT AND COUNTY	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	All Sheep and Lambs
			Head		
Isabella	36,000	14,000	11,200	2,800	1,500
Mecosta	22,000	9,100	6,000	3,100	1,500
Midland	9,000	1,700	700	1,000	100
Montcalm	27,000	11,600	10,300	1,300	1,300
Osceola	23,000	11,200	7,700	3,500	800
CENTRAL (5)	174,000	69,000	49,000	20,000	9,200
Arenac	9,500	3,600	3,000	600	100
Bay	5,000	1,900	1,500	400	100
Huron	83,000	23,800	20,500	3,300	400
Saginaw	16,500	6,500	5,000	1,500	2,400
Sanilac	81,000	33,500	31,000	2,500	800
Tuscola	25,000	10,700	8,000	2,700	800
E.CENTRAL (6)	220,000	80,000	69,000	11,000	4,600
Allegan	53,000	19,900	16,400	3,500	1,900
Berrien	9,500	4,100	2,700	1,400	350
Cass	14,000	6,200	2,700	3,500	2,200
Kalamazoo	18,500	5,800	3,600	2,200	2,300
Kent	44,000	17,500	14,000	3,500	1,200
Ottawa	51,000	19,400	14,900	4,500	650
Van Buren	12,000	4,600	2,200	2,400	1,400
SOUTHWEST (7)	202,000	77,500	56,500	21,000	10,000
Barry	31,000	13,800	9,700	4,100	1,700
Branch	23,500	7,200	5,000	2,200	3,600
Calhoun	32,500	12,600	7,400	5,200	2,100
Clinton	42,000	17,500	15,500	2,000	3,200
Eaton	24,000	10,100	5,600	4,500	4,200
Hillsdale	33,500	13,200	9,700	3,500	4,500
Ingham	29,000	12,600	10,000	2,600	4,100
Ionia	42,000	16,400	13,800	2,600	1,700
Jackson	37,000	13,100	8,000	5,100	7,000
St. Joseph	16,500	5,800	3,900	1,900	2,500
Shiawassee	26,000	10,700	8,400	2,300	1,400
S.CENTRAL (8)	337,000	133,000	97,000	36,000	36,000
Genesee	19,500	6,100	4,200	1,900	1,200
Lapeer	37,000	14,400	10,700	3,700	2,700
Lenawee	34,500	10,500	8,100	2,400	5,600
Livingston	25,000	9,200	7,100	2,100	2,100
Macomb	10,500	4,200	3,100	1,100	700
Monroe	10,000	2,200	1,400	800	1,100
Oakland	6,500	3,300	1,400	1,900	900
St. Clair	23,000	11,800	6,500	5,300	600
Washtenaw	28,000	11,100	8,400	2,700	18,000
Wayne	1,000	200	100	100	100
SOUTHEAST (9)	195,000	73,000	51,000	22,000	33,000
STATE	1,410,000	550,000	397,000	153,000	108,000

MILK: Cow Number, Production Per Cow, Total Production, 1985-86

DISTRICT AND COUNTY	1986 Milk Cows	1986 Milk Per Cow	1986 Total Milk Produced	1985 Milk Cows	1985 Milk Per Cow	1985 Total Milk Produced
	Head	Lbs.	000 Lbs.	Head	Lbs.	000 Lbs.
Alger	700	13,570	9,500	800	13,500	10,800
Baraga	400	14,500	5,800	400	14,250	5,700
Chippewa	2,500	12,920	32,300	2,500	12,800	32,000
Delta	2,800	12,960	36,300	2,800	12,860	36,000
Dickinson	800	15,250	12,200	900	15,000	13,500
Gogebic	100	14,000	1,400	200	13,500	2,700
Houghton	900	13,560	12,200	900	13,330	12,000
Iron	300	15,330	4,600	300	15,000	4,500
Keweenaw	--	--	--	--	--	--
Luce	--	--	--	--	--	--
Mackinac	1,000	14,400	14,400	1,100	14,270	15,700
Marquette	500	13,200	6,600	500	13,000	6,500
Menominee	7,500	13,070	98,000	7,900	12,910	102,000
Ontonagon	800	14,630	11,700	800	14,500	11,600
Schoolcraft	200	15,000	3,000	400	15,000	6,000
UPPER PENINSULA (1)	18,500	13,405	248,000	19,500	13,282	259,000
Antrim	1,800	14,170	25,500	1,800	13,890	25,000
Benzie	100	14,000	1,400	100	14,000	1,400
Charlevoix	1,700	13,820	23,500	1,700	13,530	23,000
Emmet	1,000	14,000	14,000	1,100	13,640	15,000
Grand Traverse	1,100	15,180	16,700	1,300	14,920	19,400
Kalkaska	200	13,000	2,600	400	12,500	5,000
Leelanau	800	15,000	12,000	900	15,000	13,500
Manistee	300	12,670	3,800	300	12,330	3,700
Missaukee	9,600	15,780	151,500	9,900	15,560	154,000
Wexford	1,400	13,570	19,000	1,500	13,330	20,000
NORTHWEST(2)	18,000	15,000	270,000	19,000	14,737	280,000
Alcona	1,000	15,300	15,300	1,100	15,270	16,800
Alpena	3,300	15,300	50,500	3,300	15,150	50,000
Cheboygan	1,700	15,290	26,000	1,800	15,000	27,000
Crawford	--	--	--	--	--	--
Iosco	1,500	15,330	23,000	1,500	15,000	22,500
Montmorency	1,200	13,330	16,000	1,300	13,080	17,000
Ogemaw	3,900	13,970	54,500	3,900	13,850	54,000
Oscoda	800	15,250	12,200	900	15,000	13,500
Otsego	700	14,290	10,000	700	13,860	9,700
Presque Isle	2,400	13,540	32,500	2,500	13,400	33,500
Roscommon	--	--	--	--	--	--
NORTHEAST (3)	16,500	14,545	240,000	17,000	14,353	244,000
Lake	700	14,290	10,000	600	14,170	8,500
Mason	3,400	14,560	49,500	3,600	14,440	52,000
Muskegon	4,200	14,170	59,500	4,400	14,090	62,000
Newaygo	8,000	14,250	114,000	8,200	14,150	116,000
Oceana	3,200	14,690	47,000	3,200	14,530	46,500
W. CENTRAL (4)	19,500	14,359	280,000	20,000	14,250	285,000
Clare	2,800	14,640	41,000	2,900	14,480	42,000
Gladwin	1,800	14,610	26,300	1,900	14,470	27,500
Gratiot	8,200	14,940	122,500	8,300	14,820	123,000

MILK: Cow Number, Production Per Cow, Total Production, 1985-86

DISTRICT AND COUNTY	1986			1985		
	Milk Cows	Milk Per Cow	Total Milk Produced	Milk Cows	Milk Per Cow	Total Milk Produced
	Head	Lbs.	000 Lbs.	Head	Lbs.	000 Lbs.
Isabella.....	10,800	13,980	151,000	11,200	13,660	153,000
Mecosta.....	5,700	14,820	84,500	5,900	14,750	87,000
Midland.....	700	13,860	9,700	700	13,570	9,500
Montcalm.....	10,000	13,450	134,500	10,300	13,300	137,000
Osceola.....	7,500	14,470	108,500	7,800	14,100	110,000
CENTRAL (5).....	47,500	14,274	678,000	49,000	14,061	689,000
Arenac.....	2,700	12,960	35,000	2,900	12,760	37,000
Bay.....	1,300	14,230	18,500	1,500	14,000	21,000
Huron.....	19,500	15,030	293,000	20,000	14,750	295,000
Saginaw.....	4,700	14,150	66,500	4,800	13,960	67,000
Sanilac.....	29,000	15,280	443,000	30,500	15,250	465,000
Tuscola.....	7,800	13,590	106,000	7,800	13,460	105,000
E. CENTRAL (6)...	65,000	14,800	962,000	67,500	14,667	990,000
Allegan.....	15,500	14,060	218,000	16,100	13,980	225,000
Berrien.....	2,300	13,910	32,000	2,600	13,850	36,000
Cass.....	2,600	13,080	34,000	2,600	12,880	33,500
Kalamazoo.....	3,500	13,710	48,000	3,700	13,650	50,500
Kent.....	13,500	14,810	200,000	13,600	14,710	200,000
Ottawa.....	13,500	14,890	201,000	14,700	14,760	217,000
Van Buren.....	2,100	12,860	27,000	2,200	12,730	28,000
SOUTHWEST (7)....	53,000	14,340	760,000	55,500	14,234	790,000
Barry.....	8,500	14,120	120,000	9,500	14,000	133,000
Branch.....	4,900	13,570	66,500	5,100	13,530	69,000
Calhoun.....	7,000	14,290	100,000	7,300	14,250	104,000
Clinton.....	15,000	14,530	218,000	15,500	14,450	224,000
Eaton.....	5,400	13,150	71,000	5,600	13,040	73,000
Hillsdale.....	9,200	14,350	132,000	9,600	14,270	137,000
Ingham.....	9,500	14,210	135,000	10,000	14,100	141,000
Ionia.....	13,000	13,620	177,000	13,700	13,580	186,000
Jackson.....	7,700	13,180	101,500	8,000	13,130	105,000
St. Joseph.....	3,800	13,420	51,000	3,900	13,330	52,000
Shiawassee.....	8,000	13,500	108,000	8,300	13,370	111,000
S. CENTRAL (8)...	92,000	13,913	1,280,000	96,500	13,834	1,335,000
Genesee.....	3,900	14,360	56,000	4,200	14,290	60,000
Lapeer.....	10,500	14,520	152,500	10,500	14,480	152,000
Lenawee.....	8,000	14,690	117,500	8,000	14,630	117,000
Livingston.....	6,700	13,580	91,000	7,000	13,430	94,000
Macomb.....	2,800	13,680	38,300	3,000	13,670	41,000
Monroe.....	1,400	14,000	19,600	1,300	13,850	18,000
Oakland.....	1,300	13,620	17,700	1,300	13,540	17,600
St. Clair.....	6,000	12,830	77,000	6,400	12,810	82,000
Washtenaw.....	8,300	13,860	115,000	8,200	13,780	113,000
Wayne.....	100	14,000	1,400	100	14,000	1,400
SOUTHEAST (9)....	49,000	14,000	686,000	50,000	13,920	696,000
STATE.....	379,000	14,259	5,404,000	394,000	14,132	5,568,000

Hogs and Pigs, Chickens: December 1, 1985-86

DISTRICT AND COUNTY	All Hogs and Pigs		Sows Farrowed		Hens and Pullets of Laying Age	
	1986	1985	1986	1985	1986	1985
	Head				Birds	
Alger	200	200	--	--	--	--
Baraga	--	--	--	--	--	--
Chippewa	800	1,000	150	150	72,000	71,000
Delta	1,800	1,500	300	250	1,000	1,800
Dickinson	100	100	--	--	--	--
Gogebic	100	--	--	--	--	--
Houghton	200	200	--	--	9,000	10,000
Iron	100	--	--	--	--	1,000
Keweenaw	--	--	--	--	--	--
Luce	200	200	--	--	--	--
Mackinac	--	--	--	--	--	--
Marquette	500	500	100	100	--	--
Menominee	1,000	1,000	300	350	15,000	20,500
Ontonagon	100	--	--	--	--	--
Schoolcraft	400	200	--	--	--	--
UPPER PENINSULA (1)	5,500	5,000	1,000	1,100	101,000	108,000
Antrim	1,300	1,200	250	250	22,000	23,000
Benzie	2,200	2,600	250	250	1,000	1,000
Charlevoix	1,800	1,900	250	200	24,000	26,000
Emmet	500	600	--	100	1,000	1,500
Grand Traverse	3,500	3,300	600	600	2,000	2,500
Kalkaska	800	900	100	150	--	--
Leelanau	1,200	900	200	150	11,000	10,500
Manistee	1,000	500	150	100	1,000	1,500
Missaukee	4,000	4,100	900	1,100	1,000	1,000
Wexford	1,200	1,500	250	300	--	--
NORTHWEST (2)	17,500	17,500	3,000	3,200	64,000	68,000
Alcona	1,200	1,000	200	150	17,000	27,000
Alpena	1,100	1,100	200	200	8,000	17,000
Cheboygan	1,300	500	250	100	1,000	1,000
Crawford	--	--	--	--	--	--
Iosco	2,200	2,400	400	400	--	--
Montmorency	300	300	--	--	--	--
Ogemaw	800	600	200	200	1,000	1,000
Oscoda	--	--	--	--	--	--
Otsego	500	400	100	--	--	--
Presque Isle	500	600	100	250	2,700	2,500
Roscommon	--	--	--	--	--	--
NORTHEAST (3)	8,000	7,000	1,500	1,400	33,000	52,000
Lake	600	600	100	100	1,500	2,000
Mason	3,000	1,400	600	500	7,000	13,000
Muskegon	4,600	4,100	1,100	1,000	1,500	2,000
Newaygo	8,300	7,200	2,000	1,900	128,000	225,000
Oceana	9,500	8,700	2,200	1,800	57,000	48,000
WEST CENTRAL (4)	26,000	22,000	6,000	5,300	195,000	290,000
Clare	6,000	9,300	1,200	1,700	--	--
Gladwin	2,500	2,400	600	600	2,500	3,000
Gratiot	21,000	21,500	3,700	3,100	103,000	108,000

Hogs and Pigs, Chickens: December 1, 1985-86

DISTRICT AND COUNTY	All Hogs and Pigs		Sows Farrowed		Hens and Pullets of Laying Age	
	1986	1985	1986	1985	1986	1985
	Head				Birds	
Isabella	17,000	17,500	3,000	3,000	185,000	180,000
Mecosta	4,500	4,200	900	900	2,500	3,000
Midland	5,200	4,600	1,100	1,000	1,300	1,200
Montcalm	12,500	15,000	2,200	2,400	6,000	7,000
Osceola	3,300	3,000	800	800	9,000	17,000
CENTRAL (5)	72,000	77,500	13,500	13,500	310,000	320,000
Arenac	6,300	6,500	1,000	1,000	4,000	6,000
Bay	2,700	2,500	500	500	4,000	5,000
Huron	44,000	47,000	8,000	7,500	1,100,000	1,080,000
Saginaw	11,000	10,000	1,900	1,500	9,000	18,000
Sanilac	10,000	11,000	1,800	2,000	8,000	11,000
Tuscola	22,000	21,000	3,800	3,500	265,000	355,000
EAST CENTRAL (6)	96,000	98,000	17,000	16,000	1,390,000	1,475,000
Allegan	95,000	85,000	16,000	13,500	845,000	775,000
Berrien	26,000	24,000	5,000	4,600	72,000	69,000
Cass	195,000	175,000	40,000	36,000	5,000	8,000
Kalamazoo	36,000	33,000	7,200	6,500	300,000	225,000
Kent	18,000	19,000	3,300	3,900	13,000	135,000
Ottawa	83,000	90,000	15,500	15,000	1,600,000	1,600,000
Van Buren	67,000	60,000	12,000	10,500	135,000	120,000
SOUTHWEST (7)	520,000	486,000	99,000	90,000	2,970,000	2,932,000
Barry	16,000	15,000	2,800	2,300	10,000	70,000
Branch	56,000	48,000	10,500	8,500	8,000	10,000
Calhoun	42,000	35,000	8,000	6,700	95,000	105,000
Clinton	25,000	23,000	5,000	4,800	10,000	10,000
Eaton	20,000	19,000	3,700	3,300	45,000	45,000
Hillsdale	45,000	42,000	8,500	7,500	70,000	95,000
Ingham	32,000	29,000	5,700	4,500	50,000	65,000
Ionia	42,000	38,000	7,500	6,000	1,040,000	1,050,000
Jackson	46,000	30,000	8,500	4,500	17,000	18,000
St. Joseph	43,000	53,000	8,500	9,500	40,000	55,000
Shiawassee	13,000	14,000	2,300	2,400	25,000	27,000
SOUTH CENTRAL (8)	380,000	346,000	71,000	60,000	1,410,000	1,550,000
Genesee	12,000	12,500	2,300	1,800	8,000	29,000
Lapeer	9,000	10,000	1,800	2,500	9,000	10,000
Lenawee	44,000	44,000	8,000	7,000	20,000	28,000
Livingston	7,000	7,100	1,200	1,400	5,000	6,000
Macomb	8,000	7,800	1,400	1,200	5,000	10,000
Monroe	17,000	21,000	3,000	3,500	70,000	105,000
Oakland	1,800	1,500	300	400	2,000	2,000
St. Clair	5,400	4,900	1,100	1,100	80,000	75,000
Washtenaw	20,000	21,500	3,800	4,500	22,000	30,000
Wayne	800	700	100	100	6,000	10,000
SOUTHEAST (9)	125,000	131,000	23,000	23,500	227,000	305,000
STATE	1,250,000	1,190,000	235,000	214,000	6,700,000	7,100,000

CORN: Acreage, Yield, Production, 1986

DISTRICT AND COUNTY	Planted All Purposes	Grain			Silage		
		Harvested	Yld.	Production	Harvested	Yld.	Production
	Acres	Acres	Bushels		Acres	Tons	
Alger	--	--	--	--	--	--	--
Baraga	--	--	--	--	--	--	--
Chippewa	--	--	--	--	--	--	--
Delta	2,400	320	78.1	25,000	2,000	11.3	22,500
Dickinson	1,600	450	80.0	36,000	1,100	10.9	12,000
Gogebic	--	--	--	--	--	--	--
Houghton	--	--	--	--	--	--	--
Iron	--	--	--	--	--	--	--
Keweenaw	--	--	--	--	--	--	--
Luce	--	--	--	--	--	--	--
Mackinac	500	80	86.3	6,900	400	11.0	4,400
Marquette	--	--	--	--	--	--	--
Menominee	11,500	4,100	81.0	332,000	7,100	10.7	76,000
Ontonagon	--	--	--	--	--	--	--
Schoolcraft	--	--	--	--	--	--	--
UPPER PENINSULA.(1)	18,000	5,500	80.9	445,000	12,000	10.8	130,000
Antrim	6,100	3,450	85.5	295,000	2,400	10.8	26,000
Benzie	1,500	550	81.8	45,000	900	13.3	12,000
Charlevoix	4,700	2,500	86.0	215,000	2,000	12.6	25,200
Emmet	2,700	900	84.4	76,000	1,700	11.8	20,000
Grand Traverse	8,900	6,400	81.6	522,000	2,200	11.4	25,000
Kalkaska	2,200	1,600	85.0	136,000	500	12.0	6,000
Leelanau	4,800	3,100	84.8	263,000	1,500	13.4	20,100
Manistee	2,700	1,900	74.7	142,000	700	11.7	8,200
Missaukee	13,700	5,300	77.0	408,000	7,900	12.0	95,000
Wexford	4,700	3,300	78.5	259,000	1,200	10.4	12,500
NORTHWEST (2)	52,000	29,000	81.4	2,361,000	21,000	11.9	250,000
Alcona	1,800	800	75.0	60,000	900	12.8	11,500
Alpena	5,900	3,000	75.0	225,000	2,600	13.8	36,000
Cheboygan	1,500	450	82.2	37,000	1,000	13.5	13,500
Crawford	--	--	--	--	--	--	--
Iosco	8,400	5,550	86.1	478,000	2,400	12.5	30,000
Montmorency	2,400	1,250	76.0	95,000	1,000	11.0	11,000
Ogemaw	10,500	4,800	81.9	393,000	5,200	14.1	73,500
Oscoda	1,350	420	80.0	33,600	880	13.6	12,000
Otsego	1,700	600	86.7	52,000	1,000	11.8	11,750
Presque Isle	3,400	1,100	80.0	88,000	2,000	13.8	27,500
Roscommon	--	--	--	--	--	--	--
NORTHEAST (3)	37,000	18,000	81.3	1,464,000	17,000	13.4	227,000
Lake	1,200	750	80.0	60,000	400	12.5	5,000
Mason	11,800	9,100	86.8	790,000	2,500	10.4	26,000
Muskegon	22,000	16,950	94.5	1,602,000	4,600	12.6	58,000
Newaygo	26,000	20,100	97.0	1,950,000	4,900	11.2	55,000
Oceana	12,000	9,100	94.5	860,000	2,600	11.2	29,000
W. CENTRAL (4)	73,000	56,000	94.0	5,262,000	15,000	11.5	173,000
Clare	8,000	4,100	76.8	315,000	3,700	13.8	51,000
Gladwin	10,500	8,350	80.0	668,000	1,900	12.6	24,000
Gratiot	84,000	76,800	110.7	8,498,000	6,000	15.0	90,000

CORN: Acreage, Yield, Production, 1986

DISTRICT AND COUNTY	Planted All Purposes	Grain			Silage		
		Harvested	Yld.	Production	Harvested	Yld.	Production
	Acres	Acres		Bushels	Acres		Tons
Isabella.....	58,000	45,000	94.2	4,237,000	12,000	13.8	165,000
Mecosta.....	19,000	15,000	90.2	1,353,000	3,300	12.7	42,000
Midland.....	27,000	24,300	110.5	2,685,000	1,700	14.7	25,000
Montcalm.....	64,000	58,100	97.2	5,645,000	4,400	13.6	60,000
Osceola.....	9,500	4,850	82.1	398,000	4,000	13.3	53,000
CENTRAL (5)....	280,000	236,500	100.6	23,799,000	37,000	13.8	510,000
Arenac.....	19,000	16,400	97.6	1,600,000	2,400	12.1	29,000
Bay.....	47,000	45,500	103.3	4,700,000	1,100	13.6	15,000
Huron.....	150,000	126,300	108.5	13,700,000	22,500	15.1	340,000
Saginaw.....	76,000	69,500	106.5	7,400,000	3,000	12.0	36,000
Sanilac.....	125,000	98,500	116.0	11,426,000	25,500	14.9	380,000
Tuscola.....	103,000	96,800	104.6	10,128,000	5,500	14.5	80,000
E.CENTRAL (6)..	520,000	453,000	108.1	48,954,000	60,000	14.7	880,000
Allegan.....	95,000	82,200	95.7	7,867,000	11,500	15.7	180,000
Berrien.....	47,000	45,500	91.6	4,167,000	1,000	14.0	14,000
Cass.....	72,000	69,700	105.6	7,361,000	1,900	13.7	26,000
Kalamazoo.....	59,000	54,600	116.8	6,380,000	4,100	14.4	59,000
Kent.....	59,000	50,000	105.1	5,255,000	8,500	12.4	105,000
Ottawa.....	54,000	43,600	94.0	4,098,000	9,800	13.3	130,000
Van Buren.....	44,000	42,400	85.6	3,628,000	1,200	13.3	16,000
SOUTHWEST (7)..	430,000	388,000	99.9	38,756,000	38,000	13.9	530,000
Barry.....	50,000	44,200	98.2	4,342,000	5,600	12.9	72,000
Branch.....	95,000	90,700	118.6	10,753,000	4,000	14.0	56,000
Calhoun.....	90,000	84,300	104.9	8,842,000	5,400	12.0	65,000
Clinton.....	70,000	58,000	109.2	6,334,000	11,000	13.6	150,000
Eaton.....	75,000	70,200	109.1	7,660,000	4,500	13.3	60,000
Hillsdale.....	103,000	95,600	111.1	10,620,000	7,000	15.7	110,000
Ingham.....	76,000	67,700	112.5	7,615,000	8,000	15.0	120,000
Ionia.....	74,000	63,700	104.8	6,676,000	10,000	12.2	122,000
Jackson.....	77,000	68,200	101.8	6,940,000	8,500	12.6	107,000
St. Joseph.....	105,000	100,600	105.0	10,563,000	4,000	12.5	50,000
Shiawassee.....	55,000	48,800	97.4	4,755,000	6,000	13.0	78,000
S. CENTRAL (8).	870,000	792,000	107.4	85,100,000	74,000	13.4	990,000
Genesee.....	52,000	46,900	96.7	4,537,000	4,500	14.4	65,000
Lapeer.....	64,000	52,400	99.9	5,233,000	11,000	13.5	149,000
Lenawee.....	128,000	119,800	119.8	14,349,000	8,000	15.5	124,000
Livingston.....	40,000	34,900	104.0	3,629,000	5,000	13.0	65,000
Macomb.....	19,000	16,450	101.1	1,663,000	2,500	12.6	31,500
Monroe.....	82,000	79,300	116.5	9,240,000	2,500	13.2	33,000
Oakland.....	15,000	14,150	101.4	1,435,000	800	11.3	9,000
St. Clair.....	45,000	39,400	98.5	3,879,000	5,500	12.7	70,000
Washtenaw.....	69,000	62,900	103.0	6,477,000	6,000	13.5	81,000
Wayne.....	6,000	5,800	115.0	667,000	200	12.5	2,500
SOUTHEAST (9)..	520,000	472,000	108.3	51,109,000	46,000	13.7	630,000
STATE.....	2,800,000	2,450,000	105.0	257,250,000	320,000	13.5	4,320,000

CORN: Acreage, Yield, Production, 1985

DISTRICT AND COUNTY	Planted All Purposes	Grain			Silage		
		Harvested	Yld.	Production	Harvested	Yld.	Production
	Acres	Acres	Bushels		Acres	Tons	
Alger	--	--	--	--	--	--	--
Baraga	--	--	--	--	--	--	--
Chippewa	--	--	--	--	--	--	--
Delta	2,500	700	92.3	64,600	1,650	13.3	22,000
Dickinson	1,800	700	87.1	61,000	1,000	10.0	10,000
Gogebic	--	--	--	--	--	--	--
Houghton	--	--	--	--	--	--	--
Iron	--	--	--	--	--	--	--
Keweenaw	--	--	--	--	--	--	--
Luce	--	--	--	--	--	--	--
Mackinac	700	50	90.0	4,500	600	12.0	7,200
Marquette	--	--	--	--	--	--	--
Menominee	12,800	5,800	87.8	509,000	6,450	11.8	76,000
Ontonagon	--	--	--	--	--	--	--
Schoolcraft	--	--	--	--	--	--	--
UPPER PENINSULA.(1)	20,000	8,000	88.0	704,000	11,000	11.9	131,000
Antrim	7,400	4,400	80.5	354,000	2,750	10.3	28,300
Benzie	1,700	600	78.3	47,000	1,000	11.6	11,600
Charlevoix	5,000	2,800	82.9	232,000	2,050	12.6	25,800
Emmet	3,000	1,200	80.8	97,000	1,700	13.2	22,500
Grand Traverse	9,500	6,500	80.0	520,000	2,650	10.0	26,500
Kalkaska	2,400	1,700	80.6	137,000	650	12.3	8,000
Leelanau	5,600	3,800	82.4	313,000	1,650	12.7	21,000
Manistee	3,200	2,200	66.8	147,000	850	11.3	9,600
Missaukee	14,800	6,000	87.7	526,000	8,300	11.6	96,200
Wexford	5,400	3,800	78.4	298,000	1,400	10.4	14,500
NORTHWEST (2)	58,000	33,000	80.9	2,671,000	23,000	11.5	264,000
Alcona	2,200	1,200	71.0	85,200	900	10.0	9,000
Alpena	6,900	3,800	71.6	272,000	2,800	11.0	30,800
Cheboygan	2,100	900	77.8	70,000	1,050	10.0	10,500
Crawford	--	--	--	--	--	--	--
Iosco	9,100	6,100	90.8	554,000	2,600	11.0	28,500
Montmorency	2,700	1,520	73.7	112,000	1,030	9.2	9,500
Ogemaw	11,000	5,000	80.6	403,000	5,500	9.4	51,800
Oscoda	1,750	750	74.4	55,800	900	11.1	10,000
Otsego	2,200	1,100	75.3	82,800	1,000	10.3	10,300
Presque Isle	4,000	1,600	70.6	113,000	2,200	12.5	27,400
Roscommon	--	--	--	--	--	--	--
NORTHEAST (3)	42,000	22,000	79.5	1,750,000	18,000	10.4	188,000
Lake	1,400	900	77.8	70,000	400	11.0	4,400
Mason	14,000	11,000	83.8	922,000	2,400	13.1	31,500
Muskegon	23,000	17,600	98.0	1,725,000	4,400	14.3	63,100
Newaygo	27,000	21,100	85.0	1,794,000	4,800	11.8	56,800
Oceana	14,600	11,400	87.5	998,000	2,500	11.3	28,200
W. CENTRAL (4)	80,000	62,000	88.9	5,509,000	14,500	12.7	184,000
Clare	10,000	6,100	80.2	489,000	3,800	12.7	48,300
Gladwin	12,000	10,000	85.0	850,000	1,900	14.2	27,000
Gratiot	89,000	81,700	127.0	10,375,000	6,500	15.4	100,000

CORN: Acreage, Yield, Production, 1985

DISTRICT AND COUNTY	Planted All Purposes	Grain			Silage		
		Harvested	Yld.	Production	Harvested	Yld.	Production
	Acres	Acres		Bushels	Acres		Tons
Isabella	64,000	49,900	99.0	4,940,000	13,400	13.7	183,000
Mecosta	21,000	17,200	83.0	1,428,000	3,600	10.5	37,700
Midland	27,000	24,800	115.0	2,852,000	1,950	14.9	29,100
Montcalm	66,000	60,700	97.0	5,888,000	4,650	12.6	58,700
Osceola	11,000	6,600	80.0	528,000	4,200	10.3	43,200
CENTRAL (5)	300,000	257,000	106.4	27,350,000	40,000	13.2	527,000
Arenac	21,000	18,200	97.3	1,770,000	2,600	11.8	30,600
Bay	57,000	55,500	117.8	6,538,000	1,150	14.3	16,400
Huron	155,000	128,000	113.1	14,472,000	25,900	15.6	403,000
Saginaw	82,000	78,100	107.7	8,415,000	3,300	13.1	43,100
Sanilac	130,000	100,800	96.3	9,710,000	28,200	12.8	362,000
Tuscola	115,000	108,400	105.0	11,381,000	5,850	15.2	88,900
E.CENTRAL (6)	560,000	489,000	106.9	52,286,000	67,000	14.1	944,000
Allegan	104,000	90,000	98.1	8,831,000	13,000	11.5	150,000
Berrien	52,000	50,400	102.2	5,149,000	1,050	12.1	12,700
Cass	84,000	81,800	88.1	7,204,000	1,400	11.6	16,300
Kalamazoo	66,000	61,600	90.0	5,542,000	3,650	13.4	49,000
Kent	66,000	55,700	97.4	5,425,000	9,650	12.0	116,000
Ottawa	64,000	52,300	103.0	5,387,000	11,000	12.5	138,000
Van Buren	54,000	52,200	103.0	5,377,000	1,250	12.8	16,000
SOUTHWEST (7)	490,000	444,000	96.7	42,915,000	41,000	12.1	498,000
Barry	52,000	46,000	101.9	4,688,000	5,700	13.2	75,000
Branch	110,000	105,000	104.1	10,928,000	4,350	15.5	67,600
Calhoun	107,000	100,600	92.4	9,292,000	5,850	14.9	87,200
Clinton	74,000	63,500	117.0	7,430,000	10,100	16.5	167,000
Eaton	84,000	78,700	116.1	9,141,000	4,900	15.8	77,200
Hillsdale	116,000	108,100	115.7	12,507,000	7,250	16.1	117,000
Ingham	83,000	74,200	106.4	7,894,000	8,200	14.1	116,000
Ionia	83,000	74,000	109.4	8,092,000	8,500	15.1	128,000
Jackson	96,000	87,200	100.3	8,743,000	8,300	14.9	124,000
St. Joseph	110,000	106,400	106.2	11,295,000	3,000	13.1	39,400
Shiawassee	60,000	53,300	96.6	5,148,000	6,350	12.7	80,600
S. CENTRAL (8)	975,000	897,000	106.1	95,158,000	72,500	14.9	1,079,000
Genesee	56,000	50,000	105.4	5,272,000	5,600	14.9	83,300
Lapeer	74,000	61,100	103.6	6,331,000	12,450	14.4	179,000
Lenawee	138,000	129,000	125.0	16,127,000	8,200	16.5	135,000
Livingston	49,000	42,000	102.1	4,288,000	6,500	14.6	95,000
Macomb	21,000	17,900	105.2	1,883,000	2,900	14.8	42,800
Monroe	84,000	80,700	121.0	9,765,000	2,750	14.7	40,500
Oakland	17,000	15,900	108.0	1,717,000	950	12.9	12,300
St. Clair	48,000	41,200	97.5	4,015,000	6,450	13.3	86,000
Washtenaw	80,000	72,500	110.7	8,023,000	6,950	14.1	98,000
Wayne	8,000	7,700	115.1	886,000	250	12.4	3,100
SOUTHEAST (9)	575,000	518,000	112.6	58,307,000	53,000	14.6	775,000
STATE	3,100,000	2,730,000	105.0	286,650,000	340,000	13.5	4,590,000

WHEAT: Acreage, Yield, Production, 1985-86

DISTRICT AND COUNTY	1986 Planted	1986 Harvested	1986 Yield	1986 Production	1985 Planted	1985 Harvested	1985 Yield	1985 Production
	Acres		Bushels		Acres		Bushels	
Alger	50	40	30.0	1,200	--	--	--	--
Baraga	--	--	--	--	--	--	--	--
Chippewa	450	400	36.0	14,400	650	600	40.0	24,000
Delta	310	300	33.3	10,000	320	300	43.3	13,000
Dickinson	--	--	--	--	--	--	--	--
Gogebic	--	--	--	--	--	--	--	--
Houghton	--	--	--	--	--	--	--	--
Iron	150	150	26.7	4,000	150	150	36.0	5,400
Keweenaw	--	--	--	--	--	--	--	--
Luce	160	150	30.0	4,500	260	250	35.2	8,800
Mackinac	160	150	30.0	4,500	210	200	37.0	7,400
Marquette	--	--	--	--	--	--	--	--
Menominee	--	--	--	--	190	180	38.9	7,000
Ontonagon	70	60	31.7	1,900	--	--	--	--
Schoolcraft	80	80	30.0	2,400	--	--	--	--
UPPER PENINSULA.(1)	1,500	1,400	32.1	45,000	1,900	1,800	38.9	70,000
Antrim	1,500	1,200	41.7	50,000	1,050	1,000	44.0	44,000
Benzie	150	100	42.0	4,200	350	350	44.3	15,500
Charlevoix	150	100	42.0	4,200	150	150	42.0	6,300
Emmet	50	50	42.0	2,100	100	100	42.0	4,200
Grand Traverse	1,500	1,350	45.6	61,500	1,550	1,500	46.7	70,000
Kalkaska	700	600	43.3	26,000	710	700	44.3	31,000
Leelanau	300	250	44.0	11,000	410	400	45.0	18,000
Manistee	550	450	40.0	18,000	410	400	45.0	18,000
Missaukee	650	450	44.4	20,000	970	950	44.2	42,000
Wexford	1,450	950	45.3	43,000	1,000	950	43.2	41,000
NORTHWEST (2)	7,000	5,500	43.6	240,000	6,700	6,500	44.6	290,000
Alcona	900	800	53.8	43,000	1,070	1,000	50.0	50,000
Alpena	2,550	2,300	43.5	100,000	1,950	1,800	49.4	89,000
Cheboygan	750	700	40.0	28,000	830	800	45.0	36,000
Crawford	--	--	--	--	--	--	--	--
Iosco	2,100	1,800	53.9	97,000	1,870	1,800	57.8	104,000
Montmorency	700	500	42.8	21,400	430	400	45.0	18,000
Ogemaw	1,250	1,100	52.7	58,000	1,580	1,500	54.0	81,000
Oscoda	50	40	45.0	1,800	--	--	--	--
Otsego	730	650	43.1	28,000	620	600	43.3	26,000
Presque Isle	1,900	1,650	42.4	70,000	1,450	1,400	50.7	71,000
Roscommon	70	60	46.7	2,800	60	60	51.7	3,100
NORTHEAST (3)	11,000	9,600	46.9	450,000	9,900	9,400	51.1	480,000
Lake	170	150	40.0	6,000	300	200	45.0	9,000
Mason	3,600	3,400	50.0	170,000	3,600	3,300	53.6	177,000
Muskegon	2,000	1,800	46.7	84,000	3,000	2,400	60.8	146,000
Newaygo	2,000	1,650	39.4	65,000	2,500	2,400	55.0	132,000
Oceana	1,730	1,500	40.0	60,000	2,100	2,000	53.0	106,000
W. CENTRAL (4)	9,500	8,500	45.3	385,000	11,500	10,300	55.3	570,000
Clare	1,100	1,000	37.0	37,000	3,300	3,200	43.8	140,000
Gladwin	2,700	2,500	36.4	91,000	5,200	5,000	54.4	272,000
Gratiot	24,000	17,000	40.3	685,000	32,400	32,000	67.7	2,165,000

WHEAT: Acreage, Yield, Production, 1985-86

DISTRICT AND COUNTY	1986				1985			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres			Bushels	Acres			Bushels
Isabella.....	15,000	11,000	43.6	480,000	17,500	17,000	'59.0	1,003,000
Mecosta.....	3,700	3,000	41.7	125,000	4,500	4,400	42.7	188,000
Midland.....	3,200	2,500	35.2	88,000	6,600	6,500	67.4	438,000
Montcalm.....	24,000	22,000	37.7	830,000	23,500	22,000	47.4	1,043,000
Osceola.....	1,300	1,000	44.0	44,000	2,000	1,900	42.6	81,000
CENTRAL (5)..	75,000	60,000	39.7	2,380,000	95,000	92,000	57.9	5,330,000
Arenac.....	8,000	6,000	47.5	285,000	7,200	7,000	64.3	450,000
Bay.....	14,000	10,000	50.0	500,000	11,300	11,000	71.4	785,000
Huron.....	46,000	43,000	59.9	2,575,000	51,000	50,000	71.6	3,580,000
Saginaw.....	34,000	30,000	54.3	1,630,000	33,500	33,000	70.6	2,330,000
Sanilac.....	45,000	42,000	54.4	2,285,000	39,500	39,000	61.9	2,415,000
Tuscola.....	33,000	29,000	53.8	1,560,000	35,500	35,000	71.1	2,490,000
E. CENTRAL (6)	180,000	160,000	55.2	8,835,000	178,000	175,000	68.9	12,050,000
Allegan.....	14,000	12,000	37.5	450,000	11,000	10,400	61.1	635,000
Berrien.....	9,500	9,000	38.9	350,000	8,500	8,200	47.1	386,000
Cass.....	14,500	14,000	37.1	520,000	9,500	9,200	44.5	409,000
Kalamazoo....	14,000	13,000	33.1	430,000	14,500	14,000	48.3	676,000
Kent.....	10,000	9,500	37.4	355,000	10,000	9,800	56.9	558,000
Ottawa.....	4,300	4,000	40.0	160,000	7,500	6,700	58.2	390,000
Van Buren....	3,700	3,500	32.9	115,000	4,000	3,700	53.0	196,000
SOUTHWEST (7)	70,000	65,000	36.6	2,380,000	65,000	62,000	52.4	3,250,000
Barry.....	16,000	15,000	32.3	485,000	13,300	13,000	58.1	755,000
Branch.....	15,500	15,000	37.7	565,000	15,700	15,000	45.0	675,000
Calhoun.....	25,000	24,000	37.1	890,000	24,500	24,000	52.7	1,265,000
Clinton.....	39,000	35,000	35.4	1,240,000	34,500	34,000	67.2	2,285,000
Eaton.....	37,000	35,000	37.4	1,310,000	28,000	27,500	58.7	1,615,000
Hillsdale....	18,000	17,000	45.3	770,000	16,700	16,500	49.8	822,000
Ingham.....	21,000	20,000	42.5	850,000	22,500	22,000	66.4	1,460,000
Ionia.....	31,000	28,000	37.9	1,060,000	31,000	30,000	62.7	1,880,000
Jackson.....	14,500	14,000	49.3	690,000	15,200	15,000	53.3	800,000
St. Joseph...	10,500	10,000	35.0	350,000	9,600	9,500	46.6	443,000
Shiawassee...	22,500	22,000	41.4	910,000	29,000	28,500	63.2	1,800,000
S. CENTRAL (8)	250,000	235,000	38.8	9,120,000	240,000	235,000	58.7	13,800,000
Genesee.....	11,000	10,000	43.5	435,000	15,300	15,000	60.0	900,000
Lapeer.....	15,500	14,000	50.7	710,000	17,500	17,000	62.9	1,070,000
Lenawee.....	42,000	39,000	53.1	2,070,000	40,000	39,000	56.1	2,187,000
Livingston...	9,300	7,000	37.9	265,000	9,800	9,500	57.5	546,000
Macomb.....	3,700	3,500	43.7	153,000	5,700	5,500	47.1	259,000
Monroe.....	26,500	25,000	52.0	1,300,000	23,500	23,000	58.0	1,333,000
Oakland.....	3,200	3,000	50.0	150,000	3,600	3,500	58.3	204,000
St. Clair....	13,500	13,000	49.6	645,000	16,500	16,000	58.4	934,000
Washtenaw....	19,500	19,000	50.5	960,000	28,500	28,000	59.3	1,660,000
Wayne.....	1,800	1,500	51.3	77,000	1,600	1,500	44.7	67,000
SOUTHEAST (9)	146,000	135,000	50.1	6,765,000	162,000	158,000	58.0	9,160,000
STATE.....	750,000	680,000	45.0	30,600,000	770,000	750,000	60.0	45,000,000

SOYBEANS: Acreage, Yield, Production, 1985-86

DISTRICT AND COUNTY	1986 Planted	1986 Harvested	1986 Yield	1986 Production	1985 Planted	1985 Harvested	1985 Yield	1985 Production
	Acres		Bushels		Acres		Bushels	
Alger	--	--	--	--	--	--	--	--
Baraga	--	--	--	--	--	--	--	--
Chippewa	--	--	--	--	--	--	--	--
Delta	200	180	28.3	5,100	300	290	29.0	8,400
Dickinson	--	--	--	--	--	--	--	--
Gogebic	--	--	--	--	--	--	--	--
Houghton	--	--	--	--	--	--	--	--
Iron	--	--	--	--	--	--	--	--
Keweenaw	--	--	--	--	--	--	--	--
Luce	--	--	--	--	--	--	--	--
Mackinac	--	--	--	--	--	--	--	--
Marquette	--	--	--	--	--	--	--	--
Menominee	--	--	--	--	50	50	30.0	1,500
Ontonagon	--	--	--	--	--	--	--	--
Schoolcraft	--	--	--	--	60	60	31.7	1,900
UPPER PENINSULA.(1)	300	270	28.1	7,600	450	440	29.5	13,000
Antrim	--	--	--	--	--	--	--	--
Benzie	--	--	--	--	--	--	--	--
Charlevoix	--	--	--	--	--	--	--	--
Emmet	--	--	--	--	--	--	--	--
Grand Traverse	60	60	30.0	1,800	70	70	28.6	2,000
Kalkaska	80	80	30.0	2,400	90	90	28.9	2,600
Leelanau	--	--	--	--	--	--	--	--
Manistee	200	180	30.0	5,400	200	190	28.9	5,500
Missaukee	--	--	--	--	--	--	--	--
Wexford	--	--	--	--	--	--	--	--
NORTHWEST (2)	400	380	30.0	11,400	450	440	29.1	12,800
Alcona	50	50	32.0	1,600	100	100	29.0	2,900
Alpena	100	90	30.0	2,700	100	100	29.0	2,900
Cheboygan	50	50	32.0	1,600	100	100	29.0	2,900
Crawford	--	--	--	--	--	--	--	--
Iosco	150	130	31.5	4,100	400	380	28.9	11,000
Montmorency	100	90	30.0	2,700	100	100	30.0	3,000
Ogemaw	100	90	30.0	2,700	200	190	29.5	5,600
Oscoda	--	--	--	--	--	--	--	--
Otsego	--	--	--	--	--	--	--	--
Presque Isle	50	50	32.0	1,600	100	100	29.0	2,900
Roscommon	--	--	--	--	--	--	--	--
NORTHEAST (3)	600	550	30.9	17,000	1,100	1,070	29.2	31,200
Lake	--	--	--	--	--	--	--	--
Mason	300	280	30.4	8,500	600	590	27.1	16,000
Muskegon	1,100	1,050	30.0	31,500	1,000	970	28.5	27,600
Newaygo	200	180	29.4	5,300	300	290	26.6	7,700
Oceana	90	80	30.0	2,400	90	90	27.2	2,450
W. CENTRAL (4)	1,700	1,600	30.0	48,000	2,000	1,950	27.7	54,000
Clare	200	170	25.3	4,300	200	200	28.0	5,600
Gladwin	1,600	1,400	24.3	34,000	1,200	1,150	29.6	34,000
Gratiot	43,000	37,000	32.1	1,188,000	68,000	66,000	34.5	2,276,000

SOYBEANS: Acreage, Yield, Production, 1985-86

DISTRICT AND COUNTY	1986				1985			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Bushels		Acres		Bushels	
Isabella.....	12,000	11,200	28.0	314,000	15,000	14,500	24.8	360,000
Mecosta.....	100	90	27.8	2,500	100	100	26.0	2,600
Midland.....	15,000	14,250	31.9	455,000	16,000	15,700	31.8	499,000
Montcalm.....	8,000	7,800	26.9	210,000	9,400	9,250	28.1	260,000
Osceola.....	100	90	24.4	2,200	100	100	28.0	2,800
CENTRAL (5)..	80,000	72,000	30.7	2,210,000	110,000	107,000	32.1	3,440,000
Arenac.....	8,500	8,300	28.3	235,000	9,500	9,100	26.0	237,000
Bay.....	16,000	15,500	27.1	420,000	18,000	17,800	31.3	558,000
Huron.....	4,500	4,200	28.6	120,000	6,500	6,200	26.0	161,000
Saginaw.....	115,000	101,000	28.7	2,900,000	120,000	118,000	30.2	3,558,000
Sanilac.....	34,000	32,000	32.7	1,045,000	42,000	41,200	25.3	1,042,000
Tuscola.....	22,000	21,000	32.4	680,000	25,000	24,700	30.6	756,000
E. CENTRAL (6)	200,000	182,000	29.7	5,400,000	221,000	217,000	29.1	6,312,000
Allegan.....	5,000	4,800	30.2	145,000	7,000	6,900	34.1	235,000
Berrien.....	25,000	24,700	30.4	750,000	26,000	25,800	34.5	891,000
Cass.....	27,000	24,700	29.8	735,000	25,000	24,700	30.9	763,000
Kalamazoo....	23,000	22,800	33.4	761,000	26,000	25,800	31.3	808,000
Kent.....	3,000	2,600	32.7	85,000	3,000	3,000	29.2	87,500
Ottawa.....	500	400	32.5	13,000	1,000	1,000	33.5	33,500
Van Buren....	8,500	8,200	32.3	265,000	11,000	10,900	30.9	337,000
SOUTHWEST (7)	92,000	88,200	31.2	2,754,000	99,000	98,100	32.2	3,155,000
Barry.....	10,000	9,700	30.9	300,000	11,000	10,900	33.9	370,000
Branch.....	40,000	39,000	34.9	1,360,000	40,000	39,500	31.9	1,259,000
Calhoun.....	30,000	29,500	31.5	930,000	25,000	24,600	27.4	673,000
Clinton.....	52,000	48,000	31.3	1,500,000	52,000	51,000	31.7	1,617,000
Eaton.....	24,000	23,000	31.3	720,000	29,000	28,700	35.0	1,005,000
Hillsdale....	36,000	35,500	32.1	1,140,000	41,000	40,300	30.8	1,243,000
Ingham.....	19,000	18,000	31.1	560,000	23,000	22,800	32.1	733,000
Ionia.....	19,000	18,000	32.2	580,000	23,000	22,300	33.6	750,000
Jackson.....	7,000	6,800	32.4	220,000	8,000	7,600	30.7	233,000
St. Joseph...	33,000	32,500	35.1	1,140,000	31,000	30,300	31.5	954,000
Shiawassee...	50,000	45,000	27.8	1,250,000	63,000	62,000	28.1	1,745,000
S. CENTRAL (8)	320,000	305,000	31.8	9,700,000	346,000	340,000	31.1	10,582,000
Genesee.....	15,000	14,600	26.0	380,000	29,000	28,500	28.0	798,000
Lapeer.....	7,000	6,600	29.5	195,000	8,500	8,000	28.3	226,000
Lenawee.....	110,000	109,000	40.0	4,360,000	105,000	104,000	39.5	4,108,000
Livingston...	5,500	5,320	31.4	167,000	5,300	5,200	32.9	171,000
Macomb.....	20,000	19,500	31.5	615,000	23,000	22,700	31.3	710,000
Monroe.....	85,000	84,000	33.5	2,810,000	80,000	78,800	36.6	2,882,000
Oakland.....	500	480	27.1	13,000	700	700	31.4	22,000
St. Clair....	33,000	32,500	27.4	892,000	41,000	39,300	28.1	1,104,000
Washtenaw....	20,000	19,500	29.0	565,000	18,000	17,400	33.9	589,000
Wayne.....	9,000	8,500	30.0	255,000	9,500	9,400	37.2	350,000
SOUTHEAST (9)	305,000	300,000	34.2	10,252,000	320,000	314,000	34.9	10,960,000
STATE.....	1,000,000	950,000	32.0	30,400,000	1,100,000	1,080,000	32.0	34,560,000

OATS: Acreage, Yield, Production, 1985-86

DISTRICT AND COUNTY	1986 Planted	1986 Harvested	1986 Yield	1986 Production	1985 Planted	1985 Harvested	1985 Yield	1985 Production
	Acres		Bushels		Acres		Bushels	
Alger	150	140	51.4	7,200	200	180	54.4	9,800
Baraga	500	460	48.9	22,500	600	550	50.4	27,700
Chippewa	3,700	3,500	48.6	170,000	3,700	3,500	48.9	171,100
Delta	2,900	2,800	55.0	154,000	3,700	3,500	60.0	210,000
Dickinson	500	460	52.0	23,900	600	550	50.0	27,500
Gogebic	150	140	50.0	7,000	300	250	51.2	12,800
Houghton	1,600	1,500	45.3	68,000	1,900	1,800	52.1	93,700
Iron	700	650	50.0	32,500	800	700	63.0	44,100
Keweenaw	--	--	--	--	--	--	--	--
Luce	200	180	47.8	8,600	300	270	50.0	13,500
Mackinac	900	800	47.0	37,600	1,000	950	47.1	44,700
Marquette	300	270	51.1	13,800	500	450	50.4	22,700
Menominee	3,700	3,500	50.0	175,000	3,700	3,300	51.2	169,000
Ontonagon	1,000	950	47.4	45,000	1,000	900	56.0	50,400
Schoolcraft	700	650	46.0	29,900	700	600	50.0	30,000
UPPER PENINSULA (1)	17,000	16,000	49.7	795,000	19,000	17,500	53.0	927,000
Antrim	1,700	1,400	60.7	85,000	1,700	1,500	49.6	74,400
Benzie	50	40	52.5	2,100	50	40	50.0	2,000
Charlevoix	600	500	60.8	30,400	500	430	50.0	21,500
Emmet	1,300	1,050	66.7	70,000	1,600	1,300	45.0	58,500
Grand Traverse	1,300	1,050	54.3	57,000	1,100	1,000	44.7	44,700
Kalkaska	200	160	53.1	8,500	250	200	51.5	10,300
Leelanau	650	550	61.8	34,000	800	700	54.0	37,800
Manistee	300	250	48.0	12,000	400	330	50.6	16,700
Missaukee	3,800	3,100	61.9	192,000	4,300	3,900	52.0	202,800
Wexford	1,100	900	54.4	49,000	1,300	1,100	43.0	47,300
NORTHWEST (2)	11,000	9,000	60.0	540,000	12,000	10,500	49.1	516,000
Alcona	1,300	1,050	61.0	64,000	2,500	2,230	73.1	163,000
Alpena	6,200	5,000	58.0	290,000	9,000	8,600	53.1	457,000
Cheboygan	800	600	57.5	34,500	1,200	1,000	52.5	52,500
Crawford	50	40	57.5	2,300	100	90	62.2	5,600
Iosco	1,700	1,300	63.1	82,000	2,700	2,400	70.4	169,000
Montmorency	1,400	1,200	52.5	63,000	2,200	2,000	51.0	102,000
Ogemaw	3,700	3,100	58.1	180,000	4,200	4,000	70.5	282,000
Oscoda	100	70	57.1	4,000	100	90	63.3	5,700
Otsego	1,400	1,200	56.7	68,000	2,000	1,900	49.1	93,200
Presque Isle	5,300	4,400	56.8	250,000	7,900	7,600	49.1	373,000
Roscommon	50	40	55.0	2,200	100	90	55.6	5,000
NORTHEAST.(3)	22,000	18,000	57.8	1,040,000	32,000	30,000	56.9	1,708,000
Lake	600	500	54.4	27,200	600	500	55.4	27,700
Mason	3,000	2,800	63.9	179,000	4,000	3,700	52.0	192,400
Muskegon	1,400	1,200	58.6	70,300	1,800	1,600	71.0	113,600
Newaygo	2,600	2,300	47.0	108,000	3,400	3,100	47.0	145,700
Oceana	1,400	1,200	62.9	75,500	1,200	1,100	49.6	54,600
W. CENTRAL (4)	9,000	8,000	57.5	460,000	11,000	10,000	53.4	534,000
Clare	2,200	1,900	60.0	114,000	3,300	3,000	45.0	135,000
Gladwin	3,800	3,500	54.3	190,000	4,000	3,600	63.0	226,800
Gratiot	4,800	4,100	69.8	286,000	10,200	9,200	63.8	587,000

OATS: Acreage, Yield, Production, 1985-86

DISTRICT AND COUNTY	1986				1985			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Bushels		Acres		Bushels	
Isabella.....	8,300	6,500	59.7	388,000	11,900	10,500	61.2	643,100
Mecosta.....	3,700	3,000	63.0	189,000	4,100	3,800	47.0	178,600
Midland.....	1,700	1,500	62.0	93,000	2,100	1,900	65.5	124,500
Montcalm.....	8,500	7,000	64.7	453,000	8,900	8,000	56.1	449,000
Osceola.....	4,000	3,500	59.4	208,000	3,500	3,000	46.0	138,000
CENTRAL (5)....	37,000	31,000	62.0	1,921,000	48,000	43,000	57.7	2,482,000
Arenac.....	3,400	2,900	58.3	169,000	3,700	3,400	69.4	236,000
Bay.....	1,100	900	67.8	61,000	1,800	1,600	71.9	115,000
Huron.....	17,500	14,500	72.6	1,052,000	22,000	20,000	80.8	1,615,000
Saginaw.....	8,000	5,700	70.4	401,000	7,500	7,000	71.7	502,000
Sanilac.....	35,000	30,500	69.3	2,114,000	42,000	39,000	77.1	3,006,000
Tuscola.....	11,000	8,500	71.8	610,000	12,000	11,000	76.4	840,000
E. CENTRAL (6).	76,000	63,000	70.0	4,407,000	89,000	82,000	77.0	6,314,000
Allegan.....	5,500	4,800	64.8	311,000	7,300	7,000	58.3	408,000
Berrien.....	900	700	64.3	45,000	1,500	1,400	63.6	89,000
Cass.....	2,300	2,000	60.0	120,000	2,200	2,000	52.5	105,000
Kalamazoo.....	3,300	2,500	74.0	185,000	4,700	4,500	62.9	283,000
Kent.....	8,100	7,500	71.3	535,000	8,800	8,500	64.6	549,000
Ottawa.....	5,100	4,000	61.3	245,000	6,500	6,000	62.7	376,000
Van Buren.....	1,800	1,500	60.0	90,000	3,000	2,600	54.6	142,000
SOUTHWEST (7)..	27,000	23,000	66.6	1,531,000	34,000	32,000	61.0	1,952,000
Barry.....	4,500	3,500	65.7	230,000	5,600	5,100	70.0	357,000
Branch.....	3,900	3,000	70.7	212,000	5,600	5,200	55.0	286,000
Calhoun.....	7,500	5,500	71.1	391,000	10,000	9,500	67.7	643,000
Clinton.....	9,000	7,000	61.1	428,000	11,600	11,000	77.5	852,000
Eaton.....	3,600	3,000	61.0	183,000	5,600	5,300	77.0	408,000
Hillsdale.....	7,000	5,000	62.0	310,000	7,100	6,800	66.6	453,000
Ingham.....	4,500	3,200	75.3	241,000	7,100	6,800	71.0	483,000
Ionia.....	11,500	8,500	72.0	612,000	13,600	13,000	64.5	839,000
Jackson.....	7,000	5,500	56.2	309,000	8,100	7,500	60.1	451,000
St. Joseph.....	2,000	1,500	74.0	111,000	2,600	2,300	53.5	123,000
Shiawassee.....	12,500	8,300	63.0	523,000	15,100	14,500	76.4	1,108,000
S. CENTRAL (8).	73,000	54,000	65.7	3,550,000	92,000	87,000	69.0	6,003,000
Genesee.....	7,800	6,500	57.8	376,000	11,500	10,600	78.1	828,000
Lapeer.....	10,700	9,000	58.4	526,000	14,200	13,200	70.4	929,000
Lenawee.....	6,000	4,500	59.1	266,000	9,300	8,700	76.1	662,000
Livingston.....	3,500	3,000	60.0	180,000	4,000	3,800	64.7	246,000
Macomb.....	3,500	2,900	58.6	170,000	5,300	5,000	69.6	348,000
Monroe.....	3,000	2,500	64.0	160,000	5,200	5,000	74.0	370,000
Oakland.....	1,700	1,450	57.9	84,000	2,200	2,010	74.6	150,000
St. Clair.....	10,200	8,000	50.5	404,000	14,500	13,900	75.9	1,055,000
Washtenaw.....	11,400	10,000	59.2	592,000	16,500	15,500	70.1	1,086,000
Wayne.....	200	150	53.3	8,000	300	290	69.0	20,000
SOUTHEAST (9)..	58,000	48,000	57.6	2,766,000	83,000	78,000	73.0	5,694,000
STATE.....	330,000	270,000	63.0	17,010,000	420,000	390,000	67.0	26,130,000

DRY BEANS: Acreage, Yield, Production, 1985-86

DISTRICT AND COUNTY	1986				1985			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Pounds	Cwt.	Acres		Pounds	Cwt.
UPPER PENINSULA (1)	1,900	1,850	810	15,000	1,800	1,740	1,260	22,000
NORTHWEST (2)	1,900	1,800	1,500	27,000	1,900	1,800	1,390	25,000
NORTHEAST (3)	11,000	9,900	810	80,000	13,000	12,000	1,100	132,000
W.CENTRAL (4)	400	350	860	3,000	500	460	1,300	6,000
Clare.....	--	--	--	--	--	--	--	--
Gladwin.....	2,700	2,400	750	18,000	2,700	2,500	1,340	33,500
Gratiot.....	52,000	35,500	720	255,000	44,000	43,000	1,500	645,000
Isabella.....	15,000	12,000	750	90,000	15,000	11,000	1,100	121,000
Mecosta.....	3,500	2,400	1,040	25,000	3,000	2,500	1,360	34,000
Midland.....	14,000	11,000	770	85,000	12,000	11,000	1,350	149,000
Montcalm.....	19,500	14,500	860	125,000	18,000	17,200	1,620	278,000
Osceola.....	--	--	--	--	--	--	--	--
CENTRAL (5)..	107,000	78,000	770	600,000	95,000	87,500	1,450	1,265,000
Arenac.....	14,000	9,000	780	70,000	14,000	13,000	1,380	180,000
Bay.....	40,000	30,000	730	220,000	40,000	36,000	1,110	400,000
Huron.....	93,000	75,000	870	650,000	86,000	83,000	1,400	1,160,000
Saginaw.....	42,000	32,000	810	260,000	25,000	23,000	1,170	270,000
Sanilac.....	30,000	16,000	880	140,000	30,000	27,000	1,110	300,000
Tuscola.....	67,000	53,000	740	390,000	67,000	63,000	1,220	767,000
E. CENTRAL (6)	286,000	215,000	800	1,730,000	262,000	245,000	1,260	3,077,000
SOUTHWEST (7)	2,300	2,100	1,190	25,000	2,300	2,200	910	20,000
Barry.....	2,500	1,000	900	9,000	1,500	1,450	1,520	22,000
Branch.....	--	--	--	--	--	--	--	--
Calhoun.....	200	60	1,000	600	--	--	--	--
Clinton.....	14,500	8,600	810	70,000	13,000	12,700	1,500	190,000
Eaton.....	18,000	5,000	880	44,000	16,000	15,800	1,580	250,000
Hillsdale....	--	--	--	--	--	--	--	--
Ingham.....	2,500	1,800	890	16,000	2,500	2,450	1,310	32,000
Ionia.....	11,000	3,600	780	28,000	11,000	10,800	1,480	160,000
Jackson.....	--	--	--	--	200	200	1,500	3,000
St. Joseph...	--	--	--	--	--	--	--	--
Shiawassee...	6,000	4,700	640	30,000	3,500	3,100	1,240	38,500
S. CENTRAL (8)	55,000	25,000	800	200,000	48,000	46,800	1,500	700,000
Genesee.....	1,800	1,300	540	7,000	1,200	800	1,000	8,000
Lapeer.....	8,500	2,500	720	18,000	9,000	7,800	1,410	110,000
Lenawee.....	300	250	800	2,000	400	350	1,140	4,000
Livingston...	250	200	750	1,500	360	300	1,170	3,500
Macomb.....	900	700	600	4,200	1,400	1,110	1,130	12,500
Monroe.....	--	--	--	--	--	--	--	--
Oakland.....	--	--	--	--	--	--	--	--
St. Clair....	2,300	700	730	5,100	3,000	2,000	1,250	25,000
Washtenaw....	--	--	--	--	--	--	--	--
Wayne.....	--	--	--	--	--	--	--	--
SOUTHEAST (9)	14,500	6,000	670	40,000	15,500	12,500	1,320	165,000
STATE.....	480,000	340,000	800	2,720,000	440,000	410,000	1,320	5,412,000

SUGARBEETS: Acreage, Yield, Production, 1985-86

DISTRICT AND COUNTY	1986				1985			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Tons		Acres		Tons	
UPPER PENINSULA (1)...	--	--	--	--	--	--	--	--
NORTHWEST (2)...	--	--	--	--	--	--	--	--
NORTHEAST (3)...	250	240	15.00	3,600	210	190	13.2	2,500
W. CENTRAL (4)..	--	--	--	--	--	--	--	--
Clare.....	--	--	--	--	--	--	--	--
Gladwin.....	700	600	19.30	11,600	590	560	20.0	11,200
Gratiot.....	13,200	11,050	20.70	229,000	5,550	4,900	20.4	100,000
Isabella.....	600	500	16.60	8,300	--	--	--	--
Midland.....	3,000	2,200	19.00	41,800	2,900	2,600	18.0	46,900
Montcalm.....	200	150	22.70	3,400	--	--	--	--
CENTRAL (5).....	17,700	14,500	20.30	294,000	9,100	8,120	19.6	159,000
Arenac.....	4,200	3,900	18.50	72,000	3,900	3,800	19.2	73,000
Bay.....	22,800	16,800	20.30	341,000	22,800	21,400	19.2	410,000
Huron.....	26,900	23,000	21.30	490,000	25,100	25,000	20.6	515,000
Saginaw.....	16,100	11,900	21.80	260,000	16,800	15,600	20.8	324,000
Sanilac.....	12,000	6,400	21.60	138,000	11,200	10,700	18.8	201,000
Tuscola.....	29,200	25,800	21.10	545,000	27,400	27,100	20.0	541,000
E. CENTRAL (6)..	111,200	87,800	21.00	1,846,000	107,200	103,600	19.9	2,064,000
SOUTHWEST (7)...	--	--	--	--	--	--	--	--
Barry.....	--	--	--	--	--	--	--	--
Branch.....	--	--	--	--	--	--	--	--
Calhoun.....	--	--	--	--	--	--	--	--
Clinton.....	--	--	--	--	--	--	--	--
Eaton.....	--	--	--	--	--	--	--	--
Ingham.....	--	--	--	--	--	--	--	--
Ionia.....	--	--	--	--	--	--	--	--
Jackson.....	--	--	--	--	--	--	--	--
St. Joseph.....	--	--	--	--	--	--	--	--
Shiawassee.....	--	--	--	--	--	--	--	--
S. CENTRAL (8)..	400	320	20.00	6,400	290	280	23.2	6,500
Genesee.....	--	--	--	--	--	--	--	--
Lapeer.....	--	--	--	--	--	--	--	--
Lenawee.....	3,600	3,550	18.90	67,100	3,500	2,700	16.0	43,100
Livingston.....	--	--	--	--	--	--	--	--
Macomb.....	--	--	--	--	--	--	--	--
Monroe.....	2,650	2,600	19.90	51,800	2,500	2,000	14.7	29,400
Oakland.....	--	--	--	--	--	--	--	--
St. Clair.....	1,000	850	19.40	16,500	950	900	17.9	16,100
SOUTHEAST (9)...	7,450	7,140	19.30	138,000	7,200	5,810	16.0	93,000
STATE.....	137,000	110,000	20.80	2,288,000	124,000	118,000	19.7	2,325,000

BARLEY: Acreage, Yield, Production, 1985-86

DISTRICT AND COUNTY	1986				1985			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Bushels		Acres		Bushels	
Alger	550	500	54.0	27,000	550	540	61.9	33,400
Baraga	200	180	50.0	9,000	250	240	62.9	15,100
Chippewa	1,000	900	45.6	41,000	800	790	53.9	42,600
Delta	3,500	3,200	56.3	180,000	2,700	2,680	63.1	169,000
Dickinson	500	450	53.3	24,000	350	340	62.9	21,400
Gogebic	--	--	--	--	--	--	--	--
Houghton	350	320	50.0	16,000	180	180	62.8	11,300
Iron	--	--	--	--	--	--	--	--
Keweenaw	--	--	--	--	--	--	--	--
Luce	400	370	48.6	18,000	130	130	63.1	8,200
Mackinac	450	420	47.6	20,000	140	140	62.9	8,800
Marquette	400	370	52.7	19,500	400	390	62.8	24,500
Menominee	3,000	2,600	58.5	152,000	2,700	2,680	63.1	169,000
Ontonagon	100	90	50.0	4,500	200	200	63.0	12,600
Schoolcraft	700	650	48.5	31,500	500	490	62.9	30,800
UPPER PENINSULA.(1)	11,200	10,100	54.0	545,000	9,000	8,900	62.1	553,000
Antrim	150	130	51.5	6,700	50	50	50.0	2,500
Benzie	--	--	--	--	--	--	--	--
Charlevoix	600	540	52.8	28,500	450	430	51.2	22,000
Emmet	300	270	53.0	14,300	140	130	50.0	6,500
Grand Traverse	--	--	--	--	--	--	--	--
Kalkaska	--	--	--	--	--	--	--	--
Leelanau	--	--	--	--	--	--	--	--
Manistee	150	130	49.2	6,400	250	240	50.4	12,100
Missaukee	80	70	51.4	3,600	60	50	50.0	2,500
Wexford	--	--	--	--	--	--	--	--
NORTHWEST (2)	1,400	1,250	52.0	65,000	1,000	950	50.5	48,000
Alcona	650	570	55.3	31,500	190	180	68.9	12,400
Alpena	550	470	53.2	25,000	500	480	55.0	26,400
Cheboygan	550	480	56.3	27,000	450	420	61.0	25,600
Crawford	--	--	--	--	--	--	--	--
Iosco	500	450	57.8	26,000	200	190	72.6	13,800
Montmorency	500	450	52.4	23,600	370	360	60.6	21,800
Ogemaw	700	630	54.3	34,200	310	310	64.8	20,100
Oscoda	100	80	53.8	4,300	50	50	64.0	3,200
Otsego	250	220	54.5	12,000	150	140	60.0	8,400
Presque Isle	650	600	56.3	33,800	650	640	54.1	34,600
Roscommon	--	--	--	--	--	--	--	--
NORTHEAST.(3)	4,500	4,000	55.0	220,000	2,900	2,800	60.0	168,000
Lake	--	--	--	--	--	--	--	--
Mason	250	220	52.3	11,500	200	180	53.9	9,700
Muskegon	300	270	48.9	13,200	250	230	60.9	14,000
Newaygo	200	180	50.0	9,000	60	50	58.0	2,900
Oceana	--	--	--	--	--	--	--	--
W. CENTRAL (4)	900	800	50.0	40,000	550	500	58.0	29,000
Clare	500	460	52.2	24,000	500	490	64.5	31,600
Gladwin	450	430	53.5	23,000	300	290	78.3	22,700
Gratiot	350	330	56.1	18,500	350	340	78.2	26,600

BARLEY: Acreage, Yield, Production, 1985-86

DISTRICT AND COUNTY	1986				1985			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres		Bushels		Acres		Bushels	
Isabella.....	1,900	1,700	54.7	93,000	1,700	1,550	81.0	125,500
Mecosta.....	750	700	50.7	35,500	550	500	60.0	30,000
Midland.....	200	180	50.0	9,000	150	150	80.0	12,000
Montcalm.....	1,900	1,800	51.1	92,000	1,100	1,040	59.8	62,200
Osceola.....	950	900	50.0	45,000	350	340	60.0	20,400
CENTRAL (5)...	7,000	6,500	52.3	340,000	5,000	4,700	70.4	331,000
Arenac.....	400	350	57.1	20,000	190	190	74.7	14,200
Bay.....	350	320	59.4	19,000	230	230	73.9	17,000
Huron.....	11,500	11,000	64.5	710,000	6,250	6,150	78.0	480,000
Saginaw.....	450	430	60.5	26,000	230	230	77.4	17,800
Sanilac.....	6,900	6,400	66.9	428,000	3,500	3,450	84.1	290,000
Tuscola.....	2,200	1,900	61.6	117,000	1,700	1,650	78.8	130,000
E. CENTRAL (6)	21,800	20,400	64.7	1,320,000	12,100	11,900	79.7	949,000
Allegan.....	400	350	55.7	19,500	300	290	50.7	14,700
Berrien.....	100	90	55.6	5,000	120	120	52.5	6,300
Cass.....	700	630	55.6	35,000	700	690	60.9	42,000
Kalamazoo.....	150	130	57.7	7,500	250	250	60.0	15,000
Kent.....	1,000	900	57.8	52,000	650	640	56.3	36,000
Ottawa.....	600	550	50.9	28,000	300	290	52.8	15,300
Van Buren.....	650	600	55.0	33,000	330	320	52.2	16,700
SOUTHWEST (7).	3,600	3,250	55.4	180,000	2,650	2,600	56.2	146,000
Barry.....	350	320	57.8	18,500	250	240	57.9	13,900
Branch.....	200	180	63.9	11,500	180	180	62.8	11,300
Calhoun.....	300	270	64.8	17,500	350	340	61.8	21,000
Clinton.....	600	540	63.0	34,000	550	540	66.3	35,800
Eaton.....	350	310	64.5	20,000	100	100	63.0	6,300
Hillsdale.....	50	50	60.0	3,000	50	50	62.0	3,100
Ingham.....	300	270	63.0	17,000	300	290	65.9	19,100
Ionia.....	1,050	950	62.1	59,000	1,000	950	57.9	55,000
Jackson.....	200	180	61.1	11,000	80	80	61.3	4,900
St. Joseph....	200	180	63.9	11,500	90	90	62.2	5,600
Shiawassee....	1,700	1,550	62.6	97,000	450	440	65.9	29,000
S. CENTRAL (8)	5,300	4,800	62.5	300,000	3,400	3,300	62.1	205,000
Genesee.....	880	810	59.3	48,000	220	210	62.9	13,200
Lapeer.....	950	900	61.1	55,000	670	660	67.3	44,400
Lenawee.....	250	230	63.5	14,600	400	390	62.8	24,500
Livingston....	100	90	61.1	5,500	50	50	66.0	3,300
Macomb.....	150	130	57.7	7,500	100	100	63.0	6,300
Monroe.....	150	140	62.9	8,800	100	100	63.0	6,300
Oakland.....	--	--	--	--	--	--	--	--
St. Clair.....	900	750	56.0	42,000	350	340	67.6	23,000
Washtenaw.....	900	840	63.1	53,000	500	490	68.0	33,300
Wayne.....	--	--	--	--	--	--	--	--
SOUTHEAST (9).	4,300	3,900	60.3	235,000	2,400	2,350	66.0	155,000
STATE.....	60,000	55,000	59.0	3,245,000	39,000	38,000	68.0	2,584,000

POTATOES: Acreage, Yield, Production, 1985-86

DISTRICT AND COUNTY	1986 Planted	1986 Harvested	1986 Yld.	1986 Production	1985 Planted	1985 Harvested	1985 Yld.	1985 Production
	Acres			Cwt.	Acres			Cwt.
Delta	950	900	280	254,000	950	900	225	202,000
Dickinson	1,400	1,350	235	320,000	1,500	1,400	255	357,000
Houghton	200	200	190	38,000	500	470	220	103,000
Iron	400	400	240	96,000	450	420	250	105,000
Luce	700	700	200	141,000	600	550	255	140,000
Marquette	350	350	270	95,000	500	470	230	108,000
Schoolcraft	300	300	220	66,000	160	150	240	36,000
U.PENINSULA (1)	4,400	4,300	240	1,032,000	4,800	4,500	240	1,080,000
Antrim	1,500	1,450	350	510,000	1,500	1,450	265	382,000
Emmet	600	570	250	143,000	800	770	250	192,000
Kalkaska	1,200	1,160	270	314,000	1,250	1,200	230	276,000
Manistee	700	670	240	162,000	1,000	950	235	223,000
Missaukee	250	250	240	60,000	300	290	235	68,000
NORTHWEST (2)	4,400	4,250	290	1,233,000	5,000	4,800	245	1,178,000
Alpena	500	470	230	108,000	400	380	210	80,000
Otsego	750	700	180	126,000	900	870	250	218,000
Presque Isle	3,900	3,300	220	727,000	4,100	3,950	230	908,000
NORTHEAST (3)	5,400	4,700	215	1,011,000	5,700	5,500	230	1,265,000
Newaygo	140	105	250	26,200	200	180	250	45,000
W. CENTRAL(4)	300	250	250	63,000	400	350	230	81,000
Gratiot	400	300	260	78,000	700	670	250	168,000
Mecosta	1,700	1,500	290	435,000	1,900	1,850	320	592,000
Montcalm	13,000	10,500	340	3,578,000	12,900	12,600	325	4,100,000
Osceola	150	140	260	36,400	200	190	250	48,000
CENTRAL (5)	15,600	12,700	330	4,191,000	16,000	15,600	320	4,997,000
Arenac	2,300	800	225	180,000	2,500	2,460	225	554,000
Bay	6,800	4,900	230	1,127,000	7,100	7,000	220	1,540,000
Huron	750	450	245	110,000	900	890	230	205,000
Saginaw	600	300	230	69,000	700	690	230	159,000
Tuscola	2,000	700	230	161,000	2,300	2,270	205	465,000
E. CENTRAL (6)	13,000	7,300	230	1,679,000	14,000	13,800	220	3,036,000
Allegan	2,000	1,400	240	335,000	2,100	2,050	270	554,000
Kent	500	400	280	112,000	700	680	340	231,000
Ottawa	300	250	190	47,500	400	390	230	90,000
SOUTHWEST (7)	3,100	2,300	235	541,000	3,600	3,500	275	962,000
Barry	650	400	210	84,000	650	620	240	149,000
Calhoun	200	150	220	33,000	350	340	220	75,000
Eaton	650	400	225	90,000	1,000	950	260	247,000
Ingham	350	200	230	46,000	600	570	270	154,000
Shiawassee	200	130	215	28,000	300	280	220	62,000
S. CENTRAL (8)	2,500	1,600	220	352,000	3,300	3,150	250	788,000
Genesee	500	250	200	50,000	900	820	250	205,000
Lapeer	650	100	240	24,000	600	550	235	129,000
Lenawee	1,900	1,550	250	389,000	1,900	1,750	290	508,000
Macomb	500	350	140	49,000	500	460	215	99,000
Monroe	1,800	1,600	250	400,000	2,300	2,100	280	589,000
St. Clair	200	100	160	16,000	300	270	215	58,000
Washtenaw	700	600	250	150,000	650	600	250	150,000
SOUTHEAST (9)	6,300	4,600	235	1,088,000	7,200	6,600	265	1,749,000
STATE	55,000	42,000	266	11,190,000	60,000	57,800	262	15,136,000

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